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Respectfully submitted,

IGNACIA S. MORENO
Assistant Attorney General
Environment and Natural Resources Division
U.S. Department of Justice

Dated: May 9, 2011

s/ Keith T. Tashima
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(214) 665-8148 (Henson)

**APPENDIX IN SUPPORT OF UNITED STATES' MEMORANDUM IN OPPOSITION
TO DEFENDANTS' MOTION TO DISMISS**

**EXCERPTS FROM EPA
ADMINISTRATIVE RECORD**

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF TEXAS

UNITED STATES ENVIRONMENTAL
PROTECTION AGENCY

Plaintiffs,

v.

RANGE RESOURCES CORPORATION and
RANGE PRODUCTION COMPANY

Defendants.

Civil Action No. _____

CERTIFICATION OF INDEX
TO ADMINISTRATIVE RECORD

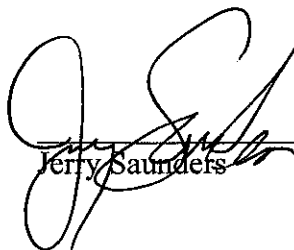
I, Jerry Saunders, am the Associate Director of the Water Enforcement Branch, Office of Compliance and Enforcement Division, U.S. Environmental Protection Agency, Region 6.

I am the custodian of the administrative record of the agency decision under review in the above-captioned matter.

I certify that the attached is a true and correct index of the administrative record pertaining to the agency decision under review.

I swear under penalty of perjury that the foregoing is true and correct.

Date: January 13, 2011



Jerry Saunders

Document Identification	Date of Document	Document Description
1	12/8/2010	Summary of Gas Analyses Dom1, Range Butler 1-H, summary of water analyses Dom1, Dom2, Range Butler 1-H, graph of Dom1-Butler 1-H isotope data (3 p).
2	11/3-30/2010	Cover letter and results of Isotech analysis Dom1, Range Butler 1-H, graph of isotope data - 11/30/2010 (3p).
3	11/16/2010	Water test results for EPA samples Dom1, Dom2, Range Butler 1-H (54 pp).
4	9/17/2010	Sampling and QA Project Plan (6 pp).
5	9/17/2010	EPA Region 6 Site Safety Plan (15 pp).
6	8/18/2010	Summary of air monitoring, Wolf Eagle Environmental for Steve Lipsky (Air - Summary_outside well_indoor bathroom.pdf) (3 p).
7	8/18/2010	Results of air monitoring Outside by Well, Wolf Eagle Environmental for Steven
8	8/31/2010	Results of air monitoring Master Bathroom, Wolf Eagle Environmental for Steven
9	8/10/2010	Well Water Laboratory Test Results Methane, Ethane, Ethene, Wolf Eagle Environmental for Steven Lipsky well (Water - Methane_Ethane_Ethene.pdf) (11
10	8/10/2010	Well Water Laboratory Test Results VOC and MTBE, RCRA 8 Metals, ICP MS Metals Ion Chromograph, ph EPA 9040 conducted for Wolf Eagle Environmental for Steven Lipsky well (Water - VOC_MTBE_Metals_Ion_pH-1.pdf, Water -
11	9/10/2010	American Radiation Services, Inc. Laboratory Analysis Report for Wolf Eagle Environmental for Steven Lipsky well (Water-Radiation.pdf) (8 pp).
12	8/14/2010	Well Water Laboratory Test Results, Surfactants - MBAs & CTAs, Steve Lipsky well (Water-Surfactants.pdf) (8 pp).
13	Sep-10	Report, Comprehensive Well Water Analysis, Hayley well, September 2010; Wolf Eagle Environmental (Hayley final water report.pdf (4 pp).
14	9/2/2010	Anachem Inc. for Wolf Eagle Environmental, Analytical Report, Volatiles and MTBE, Xenco Lab report, MBAS report, Hayley well (Hayley water labs.pdf) (47
15	9/2/2010	Anachem Inc. for Wolf Eagle Environmental, Analytical Report, Hayley well (HayleyAna26Aug.pdf) (26 pp).
16	9/3/2010	Analytical Report 387479 for Wolf Eagle Environmental, Xenco Laboratories, methane, ethane, ethene Hayley well (HayleyXen26Aug.pdf) (11 pp).
17	8/31/2010	Armstrong Forensic Laboratory for Wolf Eagle Environmental, MBAS test, Hayley well (HayleyLabArm26Aug.pdf) (8 pp).
18	8/20/2010	RRC of Texas Initial Report, Lipsky, Steve Complaint No. 7B-9601 (2 pp).
19	9/22/2010	RRC of Texas Status Report, Lipsky, Steve Complaint No. 7B-9601 gas and water sample results, analysis (42 pp).
20	11/5/2010	RRC of Texas Status Report, Lipsky, Steve Complaint No. 7B-9601, summary of 10/14/2010 and 10/26/2010 inspections (2 pp).
21	8 to 11/2010	Well Data for Range Butler Unit Well 1-H, RRC of Texas online data (36 pp).
22	8 to 11/2010	Well Data for Range Teal Unit Well 1-H, RRC of Texas online data (39 pp).
23	8/2009 to 11/2010	Well Data for Devon Durant South Unit Well 1-H, RRC of Texas online data (34 pp).
24	11/29/2010	Well Data Lake Country Acres (19 pp).
25	11/18/2010	Well Data Domestic Wells in the area (61 pp).
26	4/18/2004	Source Identification of Stray Gases By Geochemical Fingerprinting, Dennis D. Coleman, Isotech Laboratories, Inc., Champaign, Illinois, USA. Solution Mining Research Institute: Spring 2004 Technical Meeting, Wichita, Kansas, USA 18-21
27	5/9/1994	Advances in the Use of Geochemical Fingerprinting for Gas Identification, Dennis D. Coleman, Isotech Laboratories, Inc. Champaign, Illinois, American Gas Association Operations Conference, May 9-11, 1994 (pp 10).

28	6/28/1993	SPE 26171, Isotope Analyses of Gases in Gas Field and Gas Storage Operations, Martin Schoell and P.D. Jenden, Chevron Petroleum Technology Co.; M.A. Beeunas, Chevron U.S.A. Production Co.; and D.D. Coleman, Isotech Laboratories Inc., SPE Gas Technology Symposium, Calgary, Alberta, Canada,
29	10/5/1986	SPE 15586, Huntsman and West Engelland Fields, Cheyenne County, Nebraska: A Case History of Technical Lessons From a Legal Conflict, M.R. Tek, U. of New South Wales; D. D. Coleman, Consulting Geochemist; and J.M. Parker, Consulting Geochemist, 61st Annual Technical Conference and Exhibition of the Society of Petroleum Engineers held in new Orleans, LA October 5-8, 1986 (16
30	5/2/1988	Geochemical Fingerprinting: Identification of Storage Gas Using Chemical and Isotopic Analyses, Dennis D. Coleman, Isotech Laboratories, Inc. NATO Advanced Studies Institute on Underground Storage of natural Gas - Theory and Practice, Ankara, Turkey, May 2-13, 1988 (14 pp).
31	1977	Isotopic Identification of Leakage Gas From Underground Storage Reservoirs - A Progress Report, Dennis D. Coleman, Wayne F. Meents, Chao-Li Liu, Robert A. Keogh, Illinois State Geological Survey, 1977 (12 pp).
32	1/12/2011	Declaration of Chris Lister, EPA (January 12, 2011)
33	12/2/2010	Letter from David T. Ritter to Scott Mcdonald, EPA (December 2, 2010)
34	1/12/2011	Declaration of Jerry Saunders, EPA (January 12, 2011)
35	12/3/2010	Email between Al Armendariz, EPA, and Victor Carrillo, TRRC (December 3,
36	11/23/2010	Email from Chris Lister, EPA to James Allman, TRRC (November 23, 2010)
37	10/21-12/03/10	Emails between Chris Lister and Officials at the Texas Railroad Commission (October 21, 2010 through December 3, 2010)
38	8/17/2010	Record of Communication between Ron Van Wyk and Doug Allmond, TRRC
39	8/19/2010	Record of Communication between Ron Van Wyk and Steve Lipsky (October 19,
40	8/20/2010	Email from Willie Lane, EPA, to Stephen Gilrein, Jerry Saunders and David Garcia, EPA (August 20, 2010)
41	11/28/2010	Email from Doug Beak, EPA, to Chris Lister, EPA (November 28, 2010)
42	12/2/2010	Email from Jerry Saunders to John Blevins and Stephen Gilrein, EPA (December

VICTOR G. CARRILLO, CHAIRMAN
ELIZABETH A. JONES, COMMISSIONER
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RAMON FERNANDEZ JR., P.E.
ACTING DEPUTY DIRECTOR, OIL AND GAS DIVISION
D. W. -JOE- CRESS
DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

August 20, 2010

Unidentified

INITIAL REPORT

Lipsky, Steve Complaint No. 7B-9601
Lipsky Property Lease
Domestic Water Well
Parker County, Texas
Job No. 10-8443

On August 6, 2010, Railroad Commission of Texas District 7B Office was contacted by Steve Lipsky concerning operations on the subject property. Steve Lipsky's concern was natural gas in a water well. On August 6, 10, 11 and 17, 2010, inspections of the property were conducted by Randy Hobbs and Bubba Jonas. During the inspections, the following were observed:

SWR 8: The Lipsky property water well was drilled on July 4, 2005, by Pecks Well Service to a depth of 200. No other completion data for the water well was available at the time of this report. The well is located 200 feet north of the residence (GPS N32.56312 W97.79144), and 500 yards east of the Brazos River. The water well produces a sustained rate of 10 gallons/minute and will pump down within 15 minutes. Well water is pumped from the wellhead to a 5,000 gallon open top plastic tank inside a building approximately 10 feet east of the water well. Well water in the tank is circulated by two ozonator pumps to remove residual sulfur odor that has been present since the well was drilled. Water from the tank is pumped into a pressurized water system servicing the residence and property. The property utilizes approximately 1,500 gallons of water per day. The complainant stated that on or about the week of July 26, 2010, gas in the water well was evident while replacing a submersible pump. During the inspection, a gas odor was detected from the water. No abnormal visual characteristics were noted and a field test for chlorides was less than 100 mg/L.

On August 10, 2010, a joint inspection of the property was conducted by Bubba Jonas and Steve Lipsky. Bubba Jonas conducted a ¼ mile radius inspection of oil and gas production. Range Production Company (691703) operates two gas wells that terminate within the ¼ mile radius. The Teal Unit Lease (253779), Well No. 1H and Butler Unit Lease (253732), Well No. 1H have bottom hole depths of 5,866 and 5,852 feet true vertical depth respectively. The surface location of the two gas wells is located 2,240 feet southeast of the referenced water well. Inspection of the leases surface location found the Butler Unit, Well No. 1 to have 30 psig of bradenhead pressure. The bradenhead would blow dry gas with the valve in the open position. The operator was contacted to take corrective action to address the bradenhead pressure. No other active wells are located within a half-mile radius of the referenced water well.

On August 11, 2010, a joint inspection of the property was conducted by Bubba Jonas; Steve Lipsky; Alisha Rich, Wolf Eagle Environmental; Dan Long and Ryan Albert, TCEQ; and Shawn Scott, Parker County Fire Marshall. Gas was apparent in the casing of the water well. Bubba Jonas collected water samples for analysis by the Commission's contracted lab (Anacon Lab).

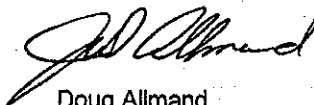
Page 2

Lipsky, Steve Complaint 7B-9601
Unidentified
Lipsky Property Lease
Parker County, Texas
August 20, 2010

On August 17, 2010, a joint inspection of the property was conducted by Bubba Jonas and Steve Lipsky. Water samples collected on August 11, 2010, were received by Anacon outside acceptable temperature requirements. Subsequent water samples taken from the water well during this inspection were received by Anacon Lab on August 18, 2010. Analysis of the water samples is pending.

Reinspection is scheduled for the week of August 30, 2010, to monitor the status of the water well. Upon receipt and review of the analytical results of the water well water samples further Commission action may be taken. **Please direct any questions with regard to this complaint to Doug Almand at (325) 677-3545.**

Sincerely,



Doug Almand
Engineering Specialist

DA/mm

- ☒ Assistant District Director
☐ District Director

cc: Field Operations, RRC, Austin

Steve Lipsky
127 River Oak Court
Weatherford, TX 76087

Sid Slocum, Water Section Manager
Texas Commission on Environmental Quality
2309 Gravel Drive
Fort Worth, TX 76118

Ron VanWyk, Water Enforcement Branch
Environmental Protection Agency
1445 Ross Avenue
Dallas, TX 75202

Range Production Company (691703)
100 Throckmorton St Ste 1200
Fort Worth, TX 76102

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 MICHAEL L. WILLIAMS, COMMISSIONER



RAMON FERNANDEZ JR., P.E.
 ACTING DEPUTY DIRECTOR, OIL AND GAS DIVISION
 D. W. -JOE- CRESS
 DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

September 22, 2010

Unidentified

STATUS REPORT

Lipsky, Steve Complaint No. 7B-9601

Lipsky Property
 Domestic Water Well
 Parker County, Texas
 Job No. 10-8443

Steve Lipsky's concern was natural gas in a water well. On August 26, 2010, a joint inspection of the property was conducted by Bubba Jonas, Doug Allmand, Steve Lipsky, Shyla Lipsky, Alisa Rich, David Ritter and Bryn Meredith. On September 21, 2010, a file review was conducted by the District Office. During the inspection and file review, the following were observed:

SWR 8: The Lipsky property water well was previously reported as drilled on 7/4/05, however, well records obtained from Pecks Well Service on 9/20/10, indicate drilling started and was completed on 4/11/05. An air rotary rig was used to drill a 7 inch well bore to a depth of 200 feet. A 4 inch slotted plastic casing was set from 180 feet to 200. Solid plastic 4 inch casing was run from surface to 180 feet with a steel sleeve surface completion. The casing was gravel packed from 60 to 200 feet and cemented from surface to 60 feet. The static water level was at 65 feet with a submersible pump set at 180 feet. The pump yielded 18 gpm with 90 feet of drawn down after 3 hours. The water well completion report described the water quality as good. Chemical analysis was not conducted at the time of completion and no know strata was penetrated which would contain undesirable constituents. Lithology of the water well is contained in the attachment State of Texas Well Report for Tracking #108518.

On August 26, 2010, a joint inspection of the property was conducted by Bubba Jonas, Doug Allmand, Steve Lipsky, Shyla Lipsky, Alisa Rich, David Ritter and Bryn Meredith. Two gas samples were obtained from the water well casing head during the inspection. The gas samples were shipped to the Commission's contracted lab (Anacon Lab) for TCD/FID analysis.

Range Production Company (691703) provided comparative analysis from the production tubing and bradenhead gas taken at the Butler Unit Lease (253732) Well No. 1 H. Each of the three gas samples taken, the Lipsky water well, the Butler Unit production and the Butler Unit bradenhead gas had distinct characteristics from each of the others. Gas analysis from the Butler production tubing was collected on 2/16/10. The operator was requested to resample the produced and bradenhead gas at the Butler Unit Well No. 1 H to obtain current comparative data. Complete gas analysis for each of the three locations sampled are attached.

Water samples taken on 8/17/10 from the Lipsky water well were analyzed for TPH, BTEX and chemical properties. TPH was not detectable at reporting limits. BTEX analysis detected Benzene at 0.00864 mg/L and Toluene at .00612 mg/L. The threshold limit for a Class 1 groundwater resource for Benzene is 0.005 mg/L and Toluene is 1.0 mg/L. Ethylbenzene and Xylenes were not detectable at reporting limits. Star diagrams, a pictorial representation of chemical analyses, were performed by the laboratory. Copies of those are enclosed along with some examples of representative star diagrams obtained from the *The Texas Department of Water Resources, Report 269, "Occurrence, Availability, and Chemical Quality of Ground Water in the Cretaceous Aquifers of North-Central Texas, April 1982"*.

3444 NORTH 1ST ★ SUITE 600 ★ ABILENE, TEXAS 79603 ★ PHONE: 325/677-3545 ★ FAX: 325/677-7122
 TDD 800/735-2989 OR TDY 512/463-7284 AN EQUAL OPPORTUNITY EMPLOYER

Range Resources Corp.
 Docket: SDWA-06-2011-1208

Administrative Record #19

000251
 Pl. Appx. 000006

Page 2

Lipsky, Steve Complaint 7B-9601

Unidentified

Lipsky Property

Parker County, Texas

September 22, 2010

According to the RRC Field Operations Manual, A Na/Cl of < 0.60 and a Cl/SO₄ ratio > 10.0 , are indicators of contamination by oilfield brine. Chemical analyses of the Lipsky water well samples indicated a Na/Cl of 10 and Cl/SO₄ of 34. The star diagram indicates samples of the Lipsky water well are native groundwater, however the ionic ratios are inconclusive as to whether the well water is contaminated with oilfield brine. The Lipsky water well had a chloride concentration of 24 mg/L, total dissolved solids were 646 mg/L and a pH of 8.83.

In addition to obtaining current gas samples for analysis from the Butler Unit Well No. 1H, the operator has been directed to pressure test the production casing from a point below the top of cement behind the production casing. The operator submitted a proposal to the District Office and the test date is pending. After receiving the results of the pressure test further Commission action may be taken.

File review is scheduled for the week of October 25, 2010. Monthly inspections are scheduled to monitor the status of the Lipsky water well. The District Office is currently conducting a geologic assessment of the area and evaluating data from adjacent well records. **Please direct any questions with regard to this complaint to Doug Allmand at (325) 677-3545.**

Sincerely,



Doug Allmand
Engineering Specialist

DA/mm

☐ Assistant District Director

☒ District Director

cc: Field Operations, RRC, Austin

Steve Lipsky
127 River Oak Court
Weatherford, TX 76087

Sid Slocum, Water Section Manager
Texas Commission on Environmental Quality
2309 Gravel Drive
Fort Worth, TX 76118

Ron VanWyk, Water Enforcement Branch
Environmental Protection Agency
1445 Ross Avenue
Dallas, TX 75202

Range Production Company (691703)
100 Throckmorton St Ste 1200
Fort Worth, TX 76102

000252
Pl. Appx. 000007

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division
Compliance SectionDistrict Office
INSPECTION REPORTD-O
rev. 6/07JOB NO. 10-8443 - 05
DISTRICT 7B

OPERATOR **UNIDENTIFIED**
 LEASE/FACILITY **LIPSKY PROPERTY**
 WELL No.(s) **WATER WELL**
 FIELD _____
 COUNTY **PARKER** ☐ COSTAL MGT AREA
☒ COMPLAINT NO. **7B-9601**
 COMPLAINANT NAME **STEVE LIPSKY**
 DIRECTIONS _____

LEASE/ID _____
 DRILL PMT. NO. _____
 PLANT NO. _____
 PIT PMT. NO. _____
 PIPELINE PMT NO. _____
 OTHER _____
 LE DOCKET _____
 SFP CODE _____
 SFCU CODE _____

☐ MUST WITNESS
☐ Field Initiated
☐ Taken By ☐ District ☐ Austin
☒ Backcheck
☒ Co-inspection
☐ Sweep
 TOTAL:
 UIC WELLS INSP _____
 WELLS INSP _____
 SITES INSP **1**

% TIME	UIC	ENV	SITE REM
LEGAL ENF	PRO/PROD	TERRA	
SFP	OTHER		

GPS COORDINATES: ☐ NO ☐ YES LOG# _____

LAT _____ LONG _____

ACTIVITY (check appropriate boxes)

A <input type="checkbox"/> BLOWOUT	P <input type="checkbox"/> OIL SPILL (NON SEN)
B <input type="checkbox"/> COM. SURFACE DISP. FAC.	Q <input type="checkbox"/> OIL SPILL (SENS)
C <input type="checkbox"/> COM. DISPOSAL WELL	R <input type="checkbox"/> PIT INSPECTION
D <input type="checkbox"/> FLARE/VENT	S <input type="checkbox"/> PLANT INSP
E <input type="checkbox"/> DISPOSAL/INJECTION	T <input type="checkbox"/> PLUGGING (OPER)
F <input type="checkbox"/> DRILLING RIG	U <input type="checkbox"/> PLUGGING (SFP)
G <input type="checkbox"/> FIRE	V <input type="checkbox"/> PROD WATER SPILL
H <input type="checkbox"/> H2S COMPLIANCE INSP.	W <input type="checkbox"/> PROD TEST
I <input type="checkbox"/> H2S INCIDENT	X <input type="checkbox"/> PROD/INT CASING
J <input type="checkbox"/> HYDROCARBON STRING	Y <input type="checkbox"/> SEAL WELL
K <input checked="" type="checkbox"/> LEASE INSPECTION	Z <input type="checkbox"/> SITE ASSMT (SFCU)
L <input type="checkbox"/> MIT	AA <input type="checkbox"/> SITE CLEAN UP SFCU
M <input type="checkbox"/> MINOR PERMIT	BB <input type="checkbox"/> SURFACE CASING
N <input type="checkbox"/> OFFICE	CC <input type="checkbox"/> WASTE HAULER
O <input type="checkbox"/> OTHER	

FIELD INSPECTION STATUS		COMPLIANCE		Prev	New	Total
		yes	no	viols.	viols.	viols.
SWR 2	Access to Property	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
SWR 3	Signs	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 8	Water Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	0	1
SWR 9	Disposal Wells	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 13	Casing/Cementing	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 14(B)(2)	Inactive wells	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 17	Pressure on Bradenhead	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 21	Firewalls	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 22	Protection of Birds	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 27	Gas Metering	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 32	Flaring/Venting	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 36	Hydrogen Sulfide	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 46	Injection Wells	<input type="checkbox"/>	<input type="checkbox"/>			
SWR 91	Oil Spill Clean-up	<input type="checkbox"/>	<input type="checkbox"/>			
OTHER		<input type="checkbox"/>	<input type="checkbox"/>			
OTHER		<input type="checkbox"/>	<input type="checkbox"/>			

Comments: **SWR 2: OK**

JOINT INSPECTION WITH DOUG ALLMAND, STEVE LIPSKY, MRS. LIPSKY, ALISA RICH (WOLF EAGLE ENVIRONMENTAL), BRYN MEREDITH AND DAVID RITTER (TAYLOR OLSON LAW FIRM)

CATCH TWO GAS SAMPLES FROM WATER WELL CASING TO SEND TO LAB FOR ANALYSIS.

STEVE LIPSKY STATED THEY ARE GOING TO DISCONTINUE USE OF THE WELL FOR HOUSE USE.

THE 5000 GALLON HOLDING TANK WILL BE WASHED OUT AND FILLED WITH POTABLE WATER.

I CERTIFY THIS DATA IS TRUE AND COMPLETE:

Bubba Jones
 TECH NO. **363** DATE **08/26/10**

START:
END:

MILEAGE
173,996
174,052

TIME
9:30
14:15

LUNCH
60 (MIN)
☐ Job Interrupt

OFFICE REVIEW

BY *[Signature]*
DATE **9/21/10**

000053
Pl. Appx. 000008

Well Report: Tracking #:108518

STATE OF TEXAS WELL REPORT for Tracking #108518

Owner:	Steve Lipiske	Owner Well #:	No Data
Address:	Silverado Addition Weatherford, TX 76086	Grid #:	32-26-6
Well Location:	Silverado Addition Weatherford, TX 76086	Latitude:	32° 33' 43" N
Well County:	Parker	Longitude:	097° 46' 48" W
Elevation:	No Data	GPS Brand Used:	map
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Date: Started: 4/11/2005
Completed: 4/11/2005

Diameter of Hole: Diameter: 7 in From Surface To 200 ft

Drilling Method: Air Rotary

Borehole Completion: Gravel Packed From: 60 ft to 200 ft
Gravel Pack Size:

Annular Seal Data: 1st Interval: From 0 ft to 60 ft with 3 (#sacks and material)
2nd Interval: No Data
3rd Interval: No Data
Method Used: Grout
Cemented By: Larry Peck
Distance to Septic Field or other Concentrated Contamination: 150 ft
Distance to Property Line: No Data
Method of Verification: Tape
Approved by Variance: No Data

Surface Completion: Alternative Procedure Used

Water Level: Static level: 65 ft. below land surface on 4/11/2005
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Submersible
Depth to pump bowl: 180 ft

Well Tests: Bailor
Yield: 18 GPM with 90 ft drawdown after 3 hours

Water Quality: Type of Water: Good
Depth of Strata: No Data
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

000255

8/19/2010

Well Report: Tracking #:108518

Company Information: Peck's Water Well Service, Inc.
2650 White Settlement Road
Weatherford, TX 76087

Driller License Number: 1598

Licensed Well Driller Signature: Larry Peck

Registered Driller Apprentice Signature: No Data

Apprentice Registration Number: No Data

Comments: Sdfs
Surface Completion: Steel Sleeve
This well is located near the Parker/Hood County Line.

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #108518) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft)	Description
0-3	Top Soil
3-18	Clay Gravel Sand Layers
18-35	Yellow Clay Sand
35-60	Green Shale with Rock
60-90	Shale with Sand
90-140	Green Shale Gravel Sand Layers
140-145	Red Bed
145-190	Green Shale with Sand Layers
190-200	Red Bed

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
4	New	Plastic	0 180
4	New	Plastic, Slotted	180 200 .020

000256

8/19/2010

Pl. Appx. 000011

ANACON, INC.

730 FM 1959
HOUSTON, TX 77034



ANALYTICAL AND CONSULTING LABORATORIES

PHONE: (281) 922-7000 • FAX (281) 481-0069

September 08, 2010

Doug Allmand
Railroad Commission of Texas - Abilene
3444 N. First St., Suite 600
Abilene, TX 79603

TEL: (325) 677-3545
FAX (325) 677-7122

RE:

Order No.: 1008279

Dear Doug Allmand:

Anacon, Inc. received 2 samples on 8/27/2010 for the analyses presented in the following report.

Analyses are performed with method-required QA/QC samples. These data are provided along with the sample results. There were no problems with the analyses unless noted in a Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,


James Lee, Lab Manager

Total Number of Pages 008
(Including Data Package Cover Sheet)

THIS DOCUMENT MEETS NELAC STANDARDS
NELAC CERTIFICATE # T104704206-010-1



This report may not be reproduced, except in full, without the written approval of this laboratory.
Reprinted results represent only the sample tested.

000257

Pl. Appx. 000012

Anacon, Inc.

Date: 08-Sep-10

CLIENT: Railroad Commission of Texas - Abilene

Project:

CASE NARRATIVE

Lab Order: 1008279

Anacon, Inc. received one gas sample to be analyzed for refinery analysis. The sample was sent to SPL for analysis.

002

Page 1 of 1

000258
PL APPX. 000013

Anacon, Inc.

Sample Receipt Checklist

Client Name RRC-ABILENE

Date and Time Receive

8/27/2010

Work Order Number 1008279

Received by: CC

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Air

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒No ☐Not Present ☐

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒Yes ☐No ☐

Water - pH acceptable upon receipt?

Yes ☐No ☒

Adjusted? _____

Checked by _____

(23.3°C - 3)

20.3°C

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____

003

000259

Pl. Appx. 000014



PAGE 1 OF 3

HOUSTON LABORATORIES
 3810 INTERCHANGE DR.
 HOUSTON, TEXAS 77064
 PHONE (713) 660-0001

CERTIFICATE OF ANALYSIS NUMBER: 2010080524-001A

Sample ID.: 1008279-01A Gas
 : Tedlar Bag
 : 08/26/10 11:30

For : Anacon
 Attn. : Melissa Knight
 : 730 FM 1959
 Houston Texas 77034

Comments: Analyst JH Date Analyzed 8/31/2010

TCD Analysis:

COMPONENTS	MOL %
Hydrogen	0.000
Carbon Dioxide	0.031
Ethylene	0.000
Ethane	5.151
Acetylene	0.000
Argon/Oxygen	4.109
Nitrogen	19.698
Methane	68.244
Carbon Monoxide	0.000

Specific Gravity : 0.7172
 (Air = 1.000 @ 60F)

	Net	Gross
BTU / ft3	775.7 Dry	858.4 Dry
(@ 14.65 & 60F)	762.2 Wet	843.5 Wet

SOUTHERN PETROLEUM LABORATORIES, INC.

As Staley

Hydrocarbon Laboratory Manager

004

000260 Appx. 000015



PAGE 2 OF 3

HOUSTON LABORATORIES
4800 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-1501

CERTIFICATE OF ANALYSIS NUMBER: 2010080524-001A

Sample ID.: 1008279-01A Gas
: Tedlar Bag

For : Anacon
Attn. : Melissa Knight
: 730 FM 1959
Houston Texas 77034

FID Analysis:

COMPONENTS	MOL %
Hexanes Plus	0.121
Methane	68.244
Ethane/Ethylene	5.151 / 0.000
Propane	1.767
Propylene	0.000
iso-Butane	0.274
Propadiene	0.000
n-Butane	0.418
Butene-1	0.000
Neo-Pentane	None Detected
iso-Butene	0.000
trans-Butene-2	0.000
cis-Butene-2	0.000
1,3-Butadiene	0.000
iso-Pentane	0.105
n-Pentane	0.082

SOUTHERN PETROLEUM LABORATORIES, INC.

Hydrocarbon Laboratory Manager

005

000261 Appx. 000016



PAGE 3 OF 3

HOUSTON LABORATORIES
 8820 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 880-0801

CERTIFICATE OF ANALYSIS NUMBER: 2010080524-001A

Sample ID.: 1008279-01A Gas
 : Tedlar Bag

For : Anacon
 Attn. : Melissa Knight
 : 730 FM 1959
 Houston Texas 77034

Completed Analysis:

Component	MOL %	WT%
Hydrogen	0.000	0.000
Carbon Dioxide	0.031	0.066
Carbon Monoxide	0.000	0.000
Ethylene	0.000	0.000
Acetylene/Propylene	0.000 / 0.000	0.000 / 0.000
Argon/Oxygen	4.109	6.329
Nitrogen	19.698	26.575
Methane	68.244	52.696
Ethane	5.151	7.455
Propane	1.767	3.750
iso-Butane	0.274	0.767
Propadiene	0.000	0.000
n-Butane	0.418	1.169
Butene-1	0.000	0.000
Neo-Pentane	0.000	0.000
iso-Butene	0.000	0.000
trans-Butene-2	0.000	0.000
cis-Butene-2	0.000	0.000
1,3-Butadiene	0.000	0.000
Iso-Pentane	0.105	0.365
n-Pentane	0.082	0.285
Hexane Plus	0.121	0.543
	100.000	100.000

SOUTHERN PETROLEUM LABORATORIES, INC.

Joe Staley

Hydrocarbon Laboratory Manager

006

000262

Pl. Appx. 000017



SPL, Inc.
PO Box 842013
Dallas, Texas 75284-2013
(713) 660-0901 Phone
(713) 660-8975 Fax

Invoice No. 1030532939
Customer No ANACON

Invoice

Customer

Company Anacon, Inc
Attention Accounts Payable/Melissa Knight
Address 730 FM 1959
City Houston Texas 77034

Date 8/31/2010
Order No. 2010080524
Rep Melissa Knight
PO# 1008279-CC

Qty	Description	Unit Price	TOTAL
1	Refinery Gases-TCD/FID-ASTM D-1946/1945M	\$275.00	\$275.00

Payment Details

- ☐ Cash
☒ Check
☐ Credit

Name _____
CC # _____
Expires _____

SubTotal	\$275.00
Shipping & Handling	\$0.00
Taxes State	\$0.00
TOTAL	\$275.00

Office Use Only

Southern Petroleum payment terms are net 30.

NET 30

Page 1

Thank You for Your Business

007

000263
Pl. Appx. 000018

ANACON, INC.730 FM 1959
HOUSTON, TX 77034-5422**INVOICE**

Invoice Number: 119314-1008279

Invoice Date: Sep 13, 2010

Page: 1

Voice: (281) 922-7000
Fax: (281) 922-9158**Bill To:**Abilene District RR Comm.
District Director
3444 N. First St., Suite 600
Abilene, TX 79603**Ship to:**Abilene District RR Comm.
District Director
3444 N. First St., Suite 600
Abilene, TX 79603

Customer ID	Customer PO	Payment Terms	
TXRR-ABILENE		Net 30 Days	
Sales Rep ID	Shipping Method	Ship Date	Due Date
			10/13/10

Quantity	Item	Description	Unit Price	Amount
1.00	MISC	REFINING GASES	275.00	275.00
Subtotal				275.00
Sales Tax				
Total Invoice Amount				275.00
Payment/Credit Applied				
TOTAL				275.00

Check/Credit Memo No:

QAP. Revision 2.7

ANACON, INC.

720 PM 1950
HOUSTON, TX 77034
(281) 922-7000 Tel.
(281) 481-0088 Fax



Chain of Custody Record

Client: Railroad Commission of TX
Abilene Dist 7B

Contact Person: Doug AllmondPhone Number: (325) 677-3545Fax Number: (325) 677-7122Page 1 of 1Anacon Log Number: 1008279

Due Date: _____

Turn Around Time: _____

Delivered By: <u>FedEx #8089 3061-145</u>				Type of Analysis Requested												Remarks
Log Number	Sample Matrix	Date/Time Collected	Number of Containers													
Temperature: <u>20.3°C</u>																
Custody Seal (Y/N): _____																
Sampled By: <u>Doug Allmond</u>																
Client Sample ID																
Casing # 1																
Casing # 2																
Lipky Stone A-plot # 7B-9601																
Lipky Well - Casing gas sample																
Parker County, Texas																
Relinquished By: <u>Doug Allmond</u>																
Accepted By: <u>ML</u>																
Relinquished By:																
Accepted By:																
Date: <u>8/24/10</u>																
Time: <u>17:00</u>																
Date: <u>8/24/10</u>																
Time: <u>9:30</u>																
Date:																
Time:																
Date:																
Time:																

000265

Pl. Appx. 000020



PAGE 1 OF 3

CERTIFICATE OF ANALYSIS NUMBER: 2010090089-001A

 HOUSTON LAB
 8820 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

 Sample ID.: Butler 1-H Surface Casing
 : 22 psig @ 70° F
 : Received 9/8/2010

*Bradenhead
gas sample*

 For : Texas Fabco Inc.
 Attn. : John Baker
 : P.O. Box 1174
 Granbury Texas 76048

Comments: Analyst JH Date Analyzed 9/8/2010

TCD Analysis:

COMPONENTS	MOL %
Hydrogen/ Helium	0.304
Carbon Dioxide	0.032
Ethylene	0.000
Ethane	0.538
Acetylene	0.000
Argon/Oxygen	0.039
Nitrogen	7.389
Methane	91.481
Carbon Monoxide	0.000

 Specific Gravity : 0.5888
 (Air = 1.000 @ 60F)

	<u>Net</u>	<u>Gross</u>
BTU / ft3	844.4 Dry	937.9 Dry
(@ 14.65 & 60F)	829.7 Wet	921.6 Wet

SOUTHERN PETROLEUM LABORATORIES, INC.

Hydrocarbon Laboratory Manager

000266

Pl. Appx. 000021



PAGE 2 OF 3

HOUSTON LAB
8820 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 860-0901

CERTIFICATE OF ANALYSIS NUMBER: 2010090089-001A

Sample ID.: Butler 1-H Surface Casing
: 22 psig @ 70° F

For : Texas Fabco Inc.
Attn. : John Baker
: P.O. Box 1174
Granbury Texas 76048

FID Analysis:

COMPONENTS	MOL %
Hexanes Plus	0.012
Methane	91.481
Ethane/Ethylene	0.538 / 0.000
Propane	0.140
Propylene	0.000
iso-Butane	0.019
Propadiene	0.000
n-Butane	0.033
Butene-1	0.000
Neo-Pentane	None Detected
iso-Butene	0.000
trans-Butene-2	0.000
cis-Butene-2	0.000
1,3-Butadiene	0.000
iso-Pentane	0.007
n-Pentane	0.006

SOUTHERN PETROLEUM LABORATORIES, INC.

Hydrocarbon Laboratory Manager

000267

Pl. Appx. 000022



PAGE 3 OF 3

HOUSTON LAB
8820 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 060-0901

CERTIFICATE OF ANALYSIS NUMBER: 2010090089-001A

Sample ID.: Butler 1-H Surface Casing
: 22 psig @ 70° F

For : Texas Fabco Inc.
Attn. : John Baker
: P.O. Box 1174
Granbury Texas 76048

Completed Analysis:

Component	MOL %	WT%
Hydrogen/ helium	0.304	0.036
Carbon Dioxide	0.032	0.083
Carbon Monoxide	0.000	0.000
Ethylene	0.000	0.000
Acetylene/Propylene	0.000 / 0.000	0.000 / 0.000
Argon/Oxygen	0.039	0.073
Nitrogen	7.389	12.144
Methane	91.481	86.055
Ethane	0.538	0.949
Propane	0.140	0.362
iso-Butane	0.019	0.065
Propadiene	0.000	0.000
n-Butane	0.033	0.112
Butene-1	0.000	0.000
Neo-Pentane	0.000	0.000
iso-Butene	0.000	0.000
trans-Butene-2	0.000	0.000
cis-Butene-2	0.000	0.000
1,3-Butadiene	0.000	0.000
iso-Pentane	0.007	0.030
n-Pentane	0.006	0.025
Hexane Plus	0.012	0.066
	<u>100.000</u>	<u>100.000</u>

SOUTHERN PETROLEUM LABORATORIES, INC.

Ch. Staley

Hydrocarbon Laboratory Manager

000268
Pl. Appx. 000023

Note - As a convenience to our clients, this form is available in an electronic format. Please contact one of our offices above for the form to be e-mailed to you.

J-W MEASUREMENT COMPANY

Shreveport, LA Tyler, TX Fairfield, TX Victoria, TX
 Godley, TX Broussard, LA Zapata, TX
 WWW.JWOPERATING.COM
 888-226-9110

G

J-WMC Number : 19505701307
 Customer : TEXAS FABCO INC.
 Station ID : 1307
 Station Name : BUTLER # 1-H
 Area : RANGE RESOURCES
 County/Parish : HOOD
 State : TX
 Property Cd :

Date Sampled : 02/16/2010
 Date Analyzed : 02/16/2010
 Effective Date : 03/01/2010
 Pressure : 142.0
 Temperature (F) : 89.0
 Cylinder ID : 1732
 Sampled by : JM

<u>COMPONENT</u>	<u>MOL %</u>	<u>GPM @ 14.696(Psia)</u>
Methane	77.2336	0.000
Ethane	12.5110	3.337
Propane	4.4428	1.221
Iso-Butane	0.6131	0.200
Normal-Butane	1.2582	0.396
Iso-Pentane	0.3698	0.135
Normal-Pentane	0.4328	0.156
Hexanes++	1.4451	0.625
Nitrogen	1.2433	0.000
Carbon-Dioxide	0.4503	0.000
TOTAL	100.0000	6.071

Compressibility Factor (Z) @ 14.696 PSia @ 60 DEG. F =

0.9961

Real Gravity: 0.751

Ideal Gravity: 0.748

BTU @ (PSia)	@14.65	@14.696	@14.73	@15.025
GPM	6.052	6.071	6.085	6.207
Ideal BTU Dry	1276.50	1280.50	1283.47	1309.17
Ideal BTU Sat	1254.16	1258.17	1261.13	1286.83
Real BTU Dry	1281.43	1285.47	1288.45	1314.36
Real BTU Sat	1259.42	1263.47	1266.45	1292.36

Comments:**METHOD: GPA 2261-00**

Note: Calibration, Standards, and testing procedures
 are archived pursuant to GPA regulations.

This Analysis Report is not intended for submission to
 Louisiana Department of Environmental Quality.

Deborah Murphy
 J-W ANALYST

000270
 Pl. Appx. 000025



DFW LABORATORIES
2440 Chambers Street, Suite A
Venus, TX 76084
PHONE (817) 539-2168
FAX (817) 539-2170

Certificate of Analysis

Number: 3040-2010090011-001A

September 02, 2010

Sean Baker
P.O. Box 1174
Grandbury TX 76084
United States Of America

Sample ID:
Station Name : Butler 1H
Station Number : B001INJ
Station Location : Barnett Shale
Sample Point: Surface Casing

Sampled By: S. Baker
Sample Of: Natural Gas Spot
Sample Date: 09/02/2010
Sample Conditions: 22.0 psig , @ 70.0°F
PO / Ref. No:
Effective Date:

ANALYTICAL DATA

Components	Mol %	Wt %	GPM at 14.650 psia	Method	Lab Tech.	Date Analyzed
				GPA-2261 M	LM	9/2/2010
Nitrogen	7.200	11.794				
Carbon Dioxide	0.013	0.033				
Methane	91.979	86.280				
Ethane	0.540	0.949	0.144			
Propane	0.137	0.353	0.038			
Iso Butane	0.019	0.065	0.006			
n-Butane	0.033	0.112	0.010			
Iso Pentane	0.007	0.030	0.003			
n-Pentane	0.007	0.030	0.003			
Hexanes Plus	0.065	0.354	0.028			
	100.000	100.000	0.232			
GPM TOTAL :	C2 + 0.232	C3 + 0.088	IC5 + 0.034			
Relative Density	Real Gas			0.5914		
Calculated Molecular Weight				17.10		
Compressibility Factor				0.9981		
Calculated Gross BTU per ft ³ @14.650 psia & 60°F						
Real Gas	Dry Basis	946				
	Saturated Basis	930				

Comments :

Cylinder Number 14

Franklin J. ...
Hydrocarbon Laboratory Manager

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP or GPA guidelines for quality assurance, unless otherwise stated

ANACON, INC.

730 FM 1959
HOUSTON, TX 77034



ANALYTICAL AND CONSULTING LABORATORIES

PHONE: (281) 922-7600 • FAX (281) 481-0089

August 30, 2010

Doug Allmand
Railroad Commission of Texas - Abilene
3444 N. First St., Suite 600
Abilene, TX 79603

TEL: (325) 677-3545

FAX (325) 677-7122

RE:

Dear Doug Allmand:


Order No.: 1008199

Anacon, Inc. received 4 samples on 8/18/2010 for the analyses presented in the following report.

Analyses are performed with method-required QA/QC samples. These data are provided along with the sample results. There were no problems with the analyses unless noted in a Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,


James Lee, Lab Manager

Total Number of Pages 17
(Including Data Package Cover Sheet)

THIS DOCUMENT MEETS NELAC STANDARDS
NELAC CERTIFICATE # T104704206-010-1

nelac

This report shall not be reproduced, except in full, without the written approval of this laboratory.
Reported results represent only the sample tested.

000272

Pl. Appx. 000027

Anacon, Inc.

Date: 30-Aug-10

CLIENT: Railroad Commission of Texas - Abilene

Project:

Lab Order: 1008199

CASE NARRATIVE

Anacon, Inc. received one water sample to be analyzed for anions, cations, alkalinity, TDS, TPH, BTEX, and pH. The sample was received in good condition and within hold times required for analysis. There was a QC problem noted with the MSD for sodium, however, the sample spiked was from a different client. Also, one of the TPH surrogates in the sample was below the acceptance limits. All QC has been included for review.

02

Page 1 of 1

000273

Pl. Appx. 000028

Anacon, Inc.

Sample Receipt Checklist

Client Name RRC-ABILENE

Date and Time Receive

8/18/2010

Work Order Number 1008199

Received by: CC

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Water

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒No ☐Not Present ☐

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐Yes ☒No ☐

Water - pH acceptable upon receipt?

Yes ☒No ☐

Adjusted?

NO

Checked by

CC

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

000274

Pl. Appx. 000029

Anacon, Inc.

Date: 27-Aug-10

CLIENT: Railroad Commission of Texas - Abilene

Client Sample ID: 6

Lab Order: 1008199

Collection Date: 8/17/2010 10:00:00 AM

Project:

Lab ID: 1008199-001

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		E200.7				Analyst: HN
Calcium	1.32	0.0420		mg/L	1	8/27/2010 11:56:00 AM
Magnesium	0.531	0.134		mg/L	1	8/27/2010 11:56:00 AM
Potassium	1.04	0.166		mg/L	1	8/27/2010 11:56:00 AM
Sodium	250	0.0510		mg/L	1	8/27/2010 11:56:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Page 1 of 4

000275

Pl. Appx. 000030

Anacon, Inc.

Date: 27-Aug-10

CLIENT: Railroad Commission of Texas - Abilene

Client Sample ID: 5

Lab Order: 1008199

Collection Date: 8/17/2010 10:00:00 AM

Project:

Lab ID: 1008199-002

Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: KK		
Chloride	24.0	0.500		mg/L	1	8/20/2010
Sulfate	0.750	0.500		mg/L	1	8/20/2010
ALKALINITY		M2320 B		Analyst: JS		
Bicarbonate	577	2.00		mg/L	1	8/19/2010
Carbonate	ND	2.00		mg/L	1	8/19/2010
PH		E150.1		Analyst: JS		
pH	8.83	0		pH units	1	8/19/2010
TOTAL DISSOLVED SOLIDS		M2540 C		Analyst: JS		
TDS	646	2.00		mg/L	1	8/24/2010

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Page 2 of 4

000276
Pl. Appx. 000031

Anacon, Inc.

Date: 27-Aug-10

CLIENT: Railroad Commission of Texas - Abilene**Client Sample ID:** 3,4**Lab Order:** 1008199**Collection Date:** 8/17/2010 10:00:00 AM**Project:****Lab ID:** 1008199-003**Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TPH FOR WATER		TX1005		Analyst: JL		
TPH (C6 - C35)	ND	5.00		mg/L	1	8/19/2010
TPH (C6 - C12)	ND	5.00		mg/L	1	8/19/2010
TPH (C12 - C35)	ND	5.00		mg/L	1	8/19/2010
Surr: 1-Chlorooctadecane	32.0	50-150	S	%REC	1	8/19/2010
Surr: 1-Chlorooctane	82.0	50-150		%REC	1	8/19/2010

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

06

Page 3 of 4

000277

Pl. Appx. 000032

Anacon, Inc.

Date: 30-Aug-10

CLIENT: Railroad Commission of Texas - Abilene
 Work Order: 1008199
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID: BLK082510JS
 Client ID: ZZZZZ

SampleType: MBLK
 Batch ID: R27035

TestCode: 200.7
 TestNo: E200.7
 Units: mg/L

Prep Date:
 Analysis: 8/27/2010
 Run ID: METAL-ICP-1_100827A
 SeqNo: 332441

Analyte
 Calcium
 Magnesium
 Potassium
 Sodium

Result
 ND
 ND
 ND
 ND

PQL
 0.0420
 0.134
 0.166
 0.0510

SPK value
 100
 100
 100
 100

SPK Ref Val
 552
 264.1
 264.1
 264.1

%REC
 104
 94.2
 94.2
 94.2

Sample ID: LCS082510JS
 Client ID: ZZZZZ

SampleType: LCS
 Batch ID: R27035

TestCode: 200.7
 TestNo: E200.7
 Units: mg/L

Prep Date:
 Analysis: 8/27/2010
 Run ID: METAL-ICP-1_100827A
 SeqNo: 332442

Analyte
 Calcium
 Magnesium
 Potassium
 Sodium

Result
 0.1268
 0.1151
 0.9486
 0.1294

PQL
 0.0420
 0.134
 0.166
 0.0510

SPK value
 0.1
 0.1
 1
 0.1

SPK Ref Val
 0
 0
 0
 0

%REC
 127
 115
 94.9
 129

Sample ID: 1008227-014A-MS
 Client ID: ZZZZZ

SampleType: MS
 Batch ID: R27035

TestCode: 200.7
 TestNo: E200.7
 Units: mg/L

Prep Date:
 Analysis: 8/27/2010
 Run ID: METAL-ICP-1_100827A
 SeqNo: 332452

Analyte
 Calcium
 Magnesium
 Potassium
 Sodium

Result
 652.3
 359.8
 137
 4187

PQL
 0.0420
 0.134
 0.166
 0.0510

SPK value
 100
 100
 100
 100

SPK Ref Val
 552
 264.1
 27.96
 4116

%REC
 100
 95.7
 109
 70.9

Sample ID: 1008227-014A-MSD
 Client ID: ZZZZZ

SampleType: MSD
 Batch ID: R27035

TestCode: 200.7
 TestNo: E200.7
 Units: mg/L

Prep Date:
 Analysis: 8/27/2010
 Run ID: METAL-ICP-1_100827A
 SeqNo: 332453

Analyte
 Calcium
 Magnesium

Result
 655.6
 358.3

PQL
 0.0420
 0.134

SPK value
 100
 100

SPK Ref Val
 552
 264.1

%REC
 104
 94.2

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method

CLIENT: Railroad Commission of Texas - Abilene
Work Order: 1008199
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID: 1008227-014A-MSD
Client ID: ZZZZZ
Batch ID: R27035

TestCode: 200.7
TestNo: E200.7
Units: mg/L

Prep Date:
Analysis: 8/27/2010

Run ID: METAL-ICP-1_100827A
SeqNo: 332453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	136.8	0.166	100	27.96	109	70	130	137	0.0911	25	
Sodium	4154	0.0610	100	4116	37.4	70	130	4187	0.804	25	S

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method

CLIENT: Railroad Commission of Texas - Abilene
Work Order: 1008199
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_w2

Sample ID: Blank
 Client ID: ZZZZZ
 Sample Type: MBLK
 Batch ID: R26974
 TestCode: 300_w2
 TestNo: E300
 Units: mg/L
 Prep Date: 8/20/2010
 Analysis: 8/20/2010
 Run ID: IC #1_100820A
 SeqNo: 331736

Analyte: Chloride Sulfate
 Result: ND
 PQL: 0.500
 %REC: 101
 LowLimit: 90
 HighLimit: 110
 RPD RefVal: 45.63
 %RPD: 0.109
 RPD Limit: 10
 Qual: 10

Sample ID: LCS
 Client ID: ZZZZZ
 Sample Type: LCS
 Batch ID: R26974
 TestCode: 300_w2
 TestNo: E300
 Units: mg/L
 Prep Date: 8/20/2010
 Analysis: 8/20/2010
 Run ID: IC #1_100820A
 SeqNo: 331737

Analyte: Chloride Sulfate
 Result: 18.46
 PQL: 0.500
 %REC: 92.3
 LowLimit: 90
 HighLimit: 110
 RPD RefVal: 0
 %RPD: 0
 RPD Limit: 10
 Qual: 10

Sample ID: 1008199-002ams
 Client ID: 5
 Sample Type: ms
 Batch ID: R26974
 TestCode: 300_w2
 TestNo: E300
 Units: mg/L
 Prep Date: 8/20/2010
 Analysis: 8/20/2010
 Run ID: IC #1_100820A
 SeqNo: 331734

Analyte: Chloride Sulfate
 Result: 45.63
 PQL: 0.500
 %REC: 108
 LowLimit: 90
 HighLimit: 110
 RPD RefVal: 0
 %RPD: 0
 RPD Limit: 10
 Qual: 10

Sample ID: 1008199-002amsd
 Client ID: 5
 Sample Type: msd
 Batch ID: R26974
 TestCode: 300_w2
 TestNo: E300
 Units: mg/L
 Prep Date: 8/20/2010
 Analysis: 8/20/2010
 Run ID: IC #1_100820A
 SeqNo: 331735

Analyte: Chloride Sulfate
 Result: 45.58
 PQL: 0.500
 %REC: 101
 LowLimit: 90
 HighLimit: 110
 RPD RefVal: 20.7
 %RPD: 0.871
 RPD Limit: 10
 Qual: 10

Qualifiers:

NID - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method

CLIENT: Railroad Commission of Texas - Abilene
Work Order: 1008199
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: blank
 Client ID: ZZZZZ

SampleType: MBLK
 Batch ID: R26946

TestCode: 8260_W
 TestNo: SW8260B Units: µg/L

Prep Date:
 Analysis 8/18/2010

Run ID: MS-VOA-1_100818A
 SeqNo: 331409

Analyte
 Benzene
 Ethylbenzene
 m,p-Xylene
 o-Xylene
 Toluene
 Surr: 1,2-Dichloroethane-d4
 Surr: 4-Bromofluorobenzene
 Surr: Dibromofluoromethane
 Surr: Toluene-d8

Result
 ND
 ND
 ND
 ND
 ND
 11.07
 9.91
 11.5
 10.43

PQL **SPK value** **SPK RefVal** **%REC**
 2.00 2.00 0 111
 2.00 2.00 0 99.1
 4.00 2.00 0 115
 2.00 2.00 0 104
 2.00 2.00 0 62
 6.33 7.40 0 135
 3.41 3.41 0 130
 3.90 3.90 0 135

LowLimit **HighLimit** **RPD RefVal**
 60 135 0
 69 130 0
 62 130 0
 62 135 0

%RPD **RPDLimit** **Qual**
 0 0
 0 0
 0 0
 0 0

Sample ID: LCS
 Client ID: ZZZZZ

SampleType: LCS
 Batch ID: R26946

TestCode: 8260_W
 TestNo: SW8260B Units: µg/L

Prep Date:
 Analysis 8/18/2010

Run ID: MS-VOA-1_100818A
 SeqNo: 331408

Analyte
 Benzene
 Ethylbenzene
 m,p-Xylene
 o-Xylene
 Toluene
 Surr: 1,2-Dichloroethane-d4
 Surr: 4-Bromofluorobenzene
 Surr: Dibromofluoromethane
 Surr: Toluene-d8

Result
 49.83
 52.72
 110.4
 57.24
 52.43
 10.29
 9.69
 8.22
 9.47

PQL **SPK value** **SPK RefVal** **%REC**
 2.00 2.00 0 99.7
 2.00 2.00 0 105
 4.00 2.00 0 110
 2.00 2.00 0 114
 2.00 2.00 0 105
 6.33 7.40 0 103
 7.40 7.40 0 96.9
 3.41 3.41 0 82.2
 3.90 3.90 0 94.7

LowLimit **HighLimit** **RPD RefVal**
 45 150 0
 50 150 0
 50 150 0
 50 150 0
 45 160 0
 60 135 0
 69 130 0
 62 130 0
 62 135 0

%RPD **RPDLimit** **Qual**
 0 0
 0 0
 0 0
 0 0
 0 0
 0 0
 0 0
 0 0
 0 0

Sample ID: 1008187-001A
 Client ID: ZZZZZ

SampleType: MS
 Batch ID: R26946

TestCode: 8260_W
 TestNo: SW8260B Units: µg/L

Prep Date:
 Analysis 8/18/2010

Run ID: MS-VOA-1_100818A
 SeqNo: 331411

Analyte
 Benzene
 Ethylbenzene
 m,p-Xylene

Result
 51.23
 59.13
 119.9

PQL **SPK value** **SPK RefVal** **%REC**
 2.00 2.00 0 102
 2.00 2.00 0 118
 4.00 2.00 0 120

LowLimit **HighLimit** **RPD RefVal**
 45 150 0
 50 150 0
 50 150 0

%RPD **RPDLimit** **Qual**
 0 0
 0 0
 0 0

Qualifiers: ND - Not Detected at the Reporting Limit
 I - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method

CLIENT: Railroad Commission of Texas - Abilene
Work Order: 1008199
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

12

Sample ID: 1008187-001A
 Client ID: ZZZZZ

Sample Type: MS
 Batch ID: R26946

TestCode: 8260_W
 TestNo: SWB260B

Prep Date:
 Analysis: 8/18/2010

Run ID: MS-VOA-1_100818A
 SeqNo: 331411

Analyte
 o-Xylene
 Toluene
 Surr: 1,2-Dichloroethane-d4
 Surr: 4-Bromofluorobenzene
 Surr: Dibromofluoromethane
 Surr: Toluene-d8

Result
 61.91
 58.39
 8.84
 9.3
 8.49
 10.06

POL **SPK value** **SPK RefVal** **%REC**
 2.00 50 1.72 120
 2.00 50 0 117
 6.33 10 0 88.4
 7.40 10 0 93
 3.41 10 0 84.9
 3.90 10 0 101

LowLimit **HighLimit** **RPD RefVal**
 50 150 0
 45 160 0
 60 135 0
 69 130 0
 62 130 0
 62 135 0

%RPD **RPDLimit** **Qual**
 0 0
 0 0
 0 0
 0 0
 0 0
 0 0

Sample ID: 1008187-001A
 Client ID: ZZZZZ

Sample Type: MSD
 Batch ID: R26946

TestCode: 8260_W
 TestNo: SWB260B

Prep Date:
 Analysis: 8/18/2010

Run ID: MS-VOA-1_100818A
 SeqNo: 331412

Analyte
 Benzene
 Ethylbenzene
 m,p-Xylene
 o-Xylene
 Toluene
 Surr: 1,2-Dichloroethane-d4
 Surr: 4-Bromofluorobenzene
 Surr: Dibromofluoromethane
 Surr: Toluene-d8

Result
 56.79
 62.41
 131.6
 68.49
 63.7
 11.07
 9.61
 7.62
 10.52

POL **SPK value** **SPK RefVal** **%REC**
 2.00 50 0 114
 2.00 50 0 125
 4.00 100 0 132
 2.00 50 1.72 130
 2.00 50 0 127
 6.33 10 0 111
 7.40 10 0 96.1
 3.41 10 0 76.2
 3.90 10 0 105

LowLimit **HighLimit** **RPD RefVal**
 45 150 51.23
 50 150 59.13
 50 150 119.9
 50 150 61.91
 45 160 58.39
 60 135 0
 69 130 0
 62 130 0
 62 135 0

%RPD **RPDLimit** **Qual**
 10.3 20
 5.40 20
 9.31 20
 7.13 20
 8.70 20
 0 20
 0 20
 0 20
 0 20

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method

Anacon, Inc.
730 FM 1959
Houston, TX 77034

QA/QC REPORT - LCS

Sample ID: LCS Matrix: Aqueous Liquid
Anacon Number: 1008120, 121, 122, 160, 161, 199 Units mg/L

Analyte / Method Number	Blk. Value	Spike Conc.	LCS Conc.	% Recovery	Recovery Limits
Alkalinity - 2320B	<2.00	100.0	97.9	98	80-120

LCS Advisory Limits

RPD: 0 out of 1 outside of QC limits

*Matrix interference

**Sample too concentrated to spike

QA/QC Manager M. R. S.

Anacon, Inc.
730 FM 1959
Houston, TX 77034

QA/QC REPORT - MS/MSD

Sample ID: MS/MSD
Anacon Number: 1008120, 121, 122, 160, 161, 199

Matrix: Aqueous Liquid
Units mg/L

Analyte/Method Number	Blank	Sample	Spike Level	MS	% REC	MSD	% REC	RPD	QC LIMITS	
									RPD	% REC
Alkalinity - 2320B	< 2.00	2	100.0	98	96	98	96	0.00	10	80-120

MS/MSD Advisory Limits

RPD: 0 out of 1 outside of QC limits
REC: 0 out of 2 outside of QC limits

- * Matrix Interference
- ** Sample too concentrated to spike

QA/QC Manager M. King

14
000285

Pl. Appx. 000040

Anacon, Inc.
730 FM 1959
Houston, TX 77034

QA/QC REPORT - LCS

Sample ID: LCS
Anacon Number: 8211, 92, 93, 99

Matrix: Aqueous Liquid
Units: mg/L

Analyte / Method Number	Blk Value	Spike Conc.	LCS Conc.	% Recovery	Recovery Limits
TPH-GRO - 1005	<5.0	50	55	110	75-125
TPH-DRO - 1005	<5.0	50	57	114	75-125

LCS Advisory Limits

RPD: 0 out of 2 outside of QC limits

*Matrix interference

**Sample too concentrated to spike

QA/QC Manager M. S. +

15

000286

Pl. Appx. 000041

Anacon, Inc.
730 FM 1959
Houston, TX 77034

QA/QC REPORT - MS/MSD

Sample ID: MS/MSD
Anacon Number: 8211, 92, 93, 99

Matrix: Aqueous Liquid
Units mg/L

Analyte/Method Number	DL	Sample	Spike Level	MS	% REC	MSD	% REC	RPD	QC LIMITS	
									RPD	% REC
TPH-GRO - 1005	<5	< 5	50	55	110	57	114	3.6	20	75-125
TPH-DRO - 1005	<5	< 5	50	58	116	62	124	6.7	20	75-125

*Matrix Interference

**Sample too Concentrated for spiked amount

MS/MSD Advisory Limits

RPD: 0 out of 2 outside of QC limits
REC: 0 out of 4 outside of QC limits

* Matrix Interference

** Sample too concentrated to spike

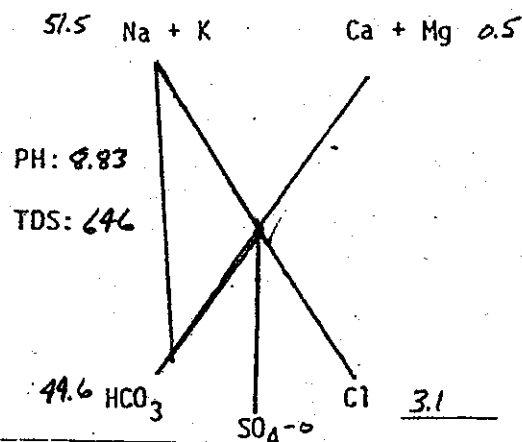
QA/QC Manager M. K. St

16

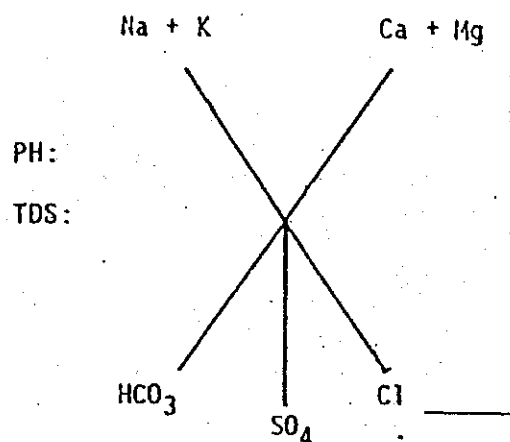
000287

STAR DIAGRAM FROM WATER QUALITY ANALYSIS OF EACH SAMPLE INDICATED

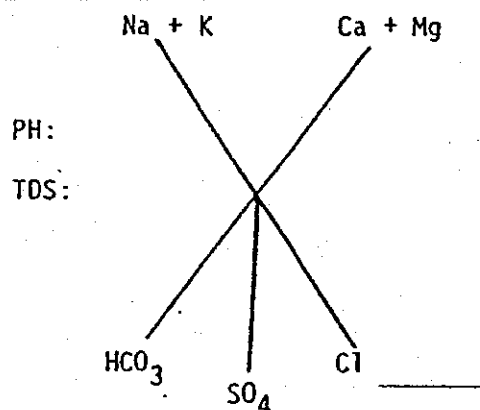
Distances along each axis shows concentration of each (in milliequivalents per liter) expressed as a % of the total concentration of dissolved solids.



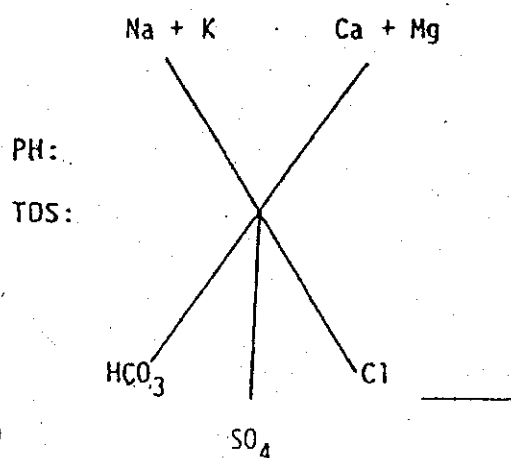
Well No. Lipsky Water Well



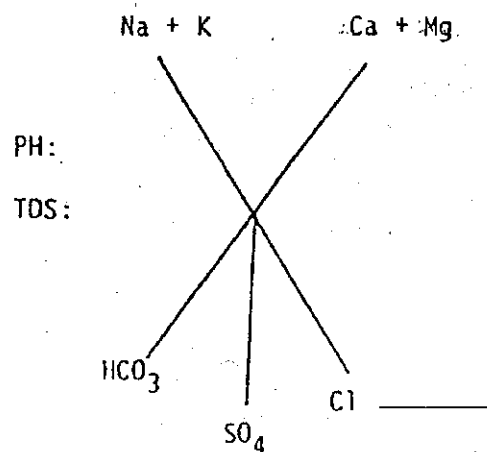
Well No. _____



Well No. _____



Well No. _____



Well No. _____

SCALE:

0% 50%

000288

Pl. Appx. 000043

Lipsky, Steve Complaint No. 7B-9601
 Lipsky Property Water Well
 Parker County, Texas
 Job No. 10-8443

Sodium (Na) in Mg/L ? 250
 Potassium (K) in Mg/L ? 1.04
 Calcium (Ca) in Mg/L ? 1.32
 Magnesium (Mg) in Mg/L ? .531

Chloride (Cl) in Mg/l ? 24
 Sulfate (SO4) in Mg/l ? .75
 Bicarbonate (HCO3) in Mg/L ? 577
 Carbonate (CO3) in Mg/L ? 0

TOTAL DISSOLVED SOLIDS (TDS) IN Mg/L ? 646
 Ph OF WATER SAMPLE ? 8.83_

CONSTITUENTS	Mg/L	Meq/L	% IONS	% TDS
Sodium (Na)	249.9	10.8	99	51.5
Potassium (K)	1	0	----	----
Calcium (Ca)	1.3	0	5	5
Magnesium (Mg)	.5	0	.3	(CA + MG)
Total CATIONS (Meq/L):		11.01114		
Chloride (Cl)	23.9	.6	6.6	3.1
Sulfate (SO4)	.7	0	.1	0
Bicarbonate (HCO3)	576.9	9.400001	93.1	44.6
Carbonate (CO3)	0	0	----	----
Total ANIONS (Meq/L):		10.14972		
REPRESENTATIVE VALUES				
HARDNESS:	5	SODIUM ADSORPTION RATIO:	46	
SAMPLE Ph:	8.83	TOTAL DISSOLVED SOLIDS:	646	
STAR DIAGRAM:	55 %	WATER TYPE:	SODIUM-BICARBONATE	
APPROXIMATE LIKELIHOOD OF BRINE CONTAMINATION				
TRILINEAR DIAGRAM:		VERY UNLIKELY		
STAR DIAGRAM:		VERY UNLIKELY		
CHLORIDE/SODIUM RATIO:		VERY UNLIKELY		
CHLORIDE/SULFATE RATIO:		POSSIBLE AND LIKELY		
CHLORIDE CONCENTRATION:		VERY UNLIKELY		

IONIC RATIOS

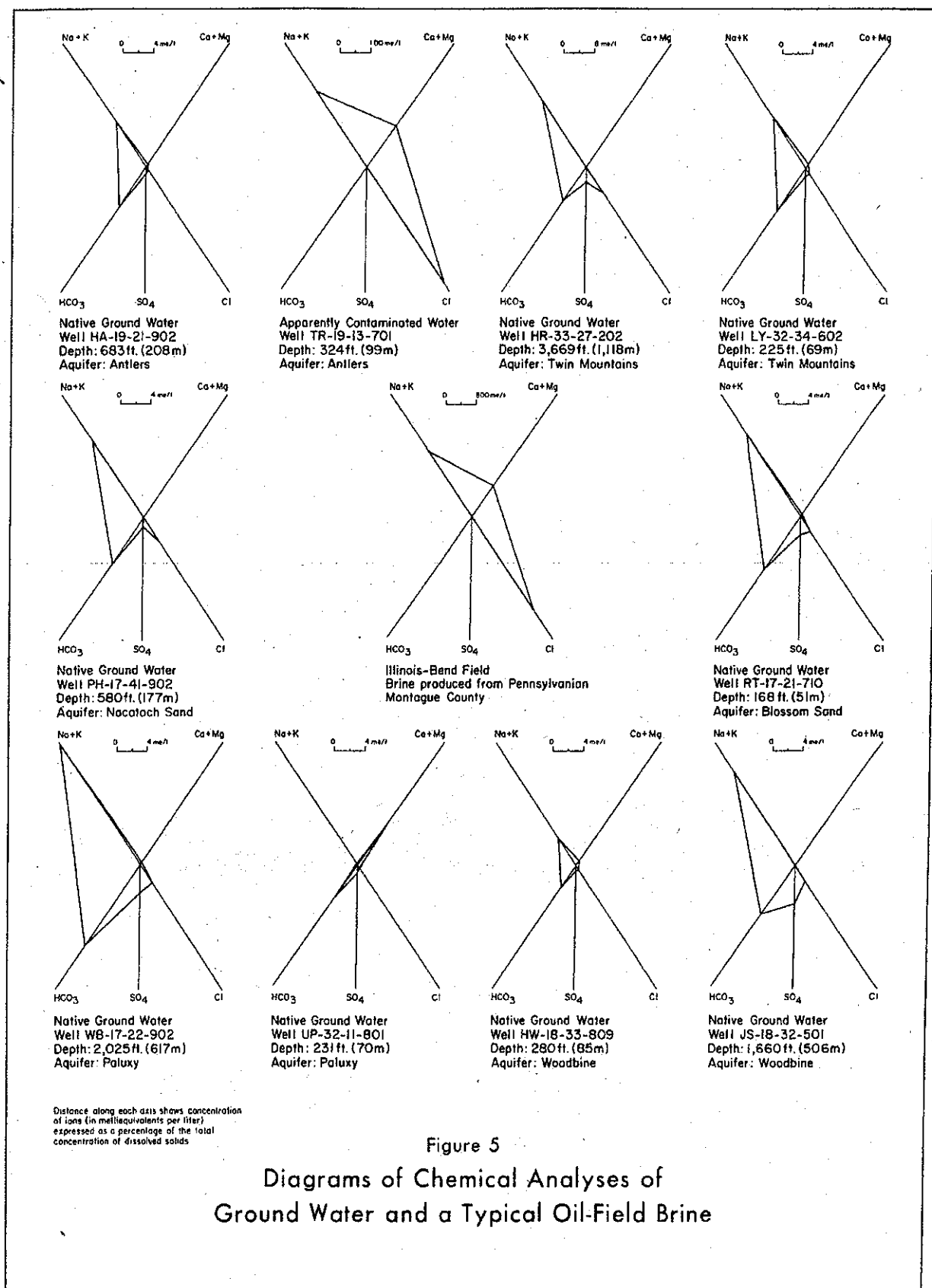
RATIO:	MG/L BASIS:	MEQ/L BASIS:
CHLORIDE/SODIUM	.07	.06
CHLORIDE/SULFATE	32	43.33
CHLORIDE/CALCIUM	18.18	10.27
CHLORIDE/MAGNESIUM	45.19	15.49
CALCIUM/MAGNESIUM	2.48	1.5

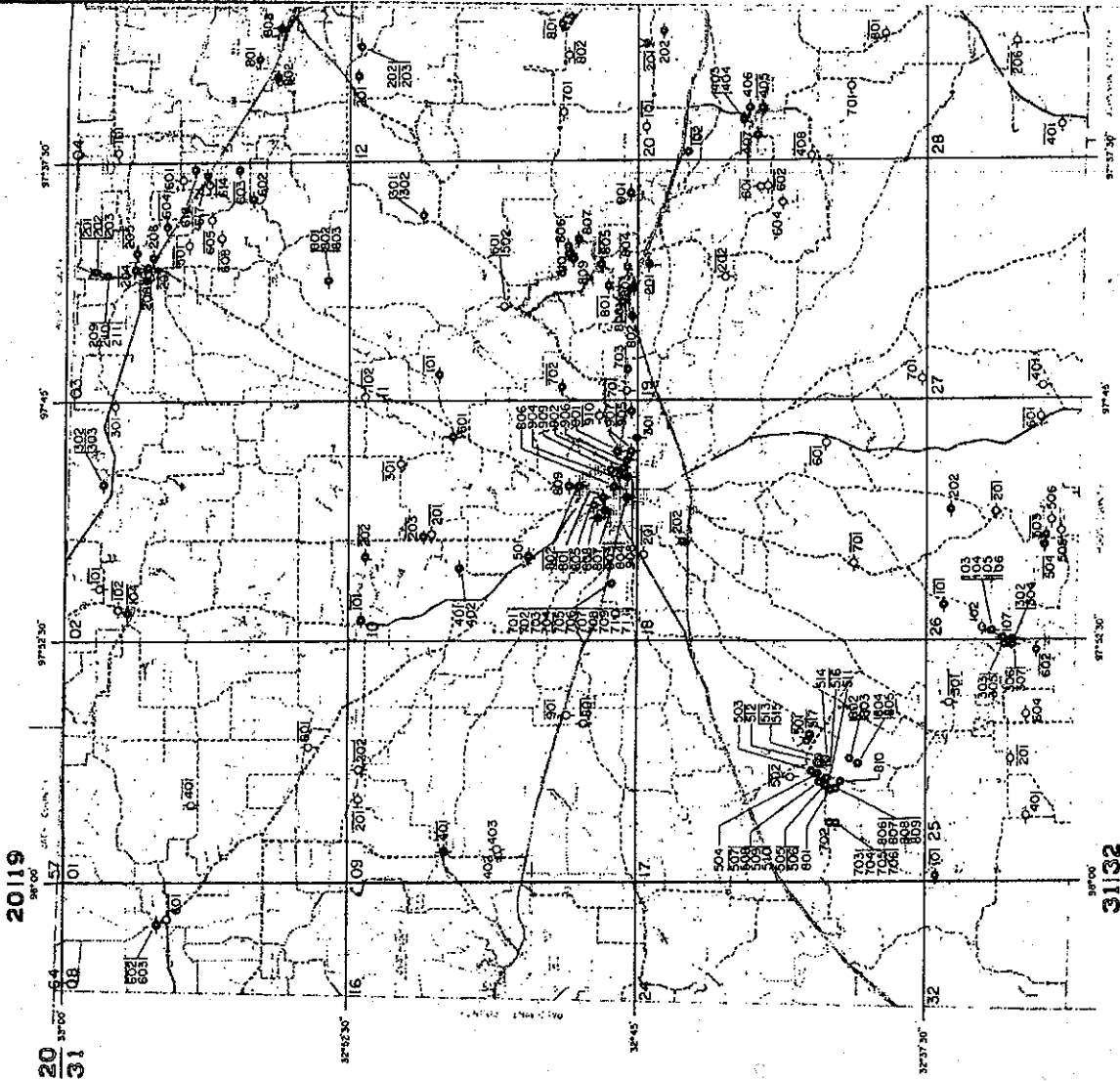
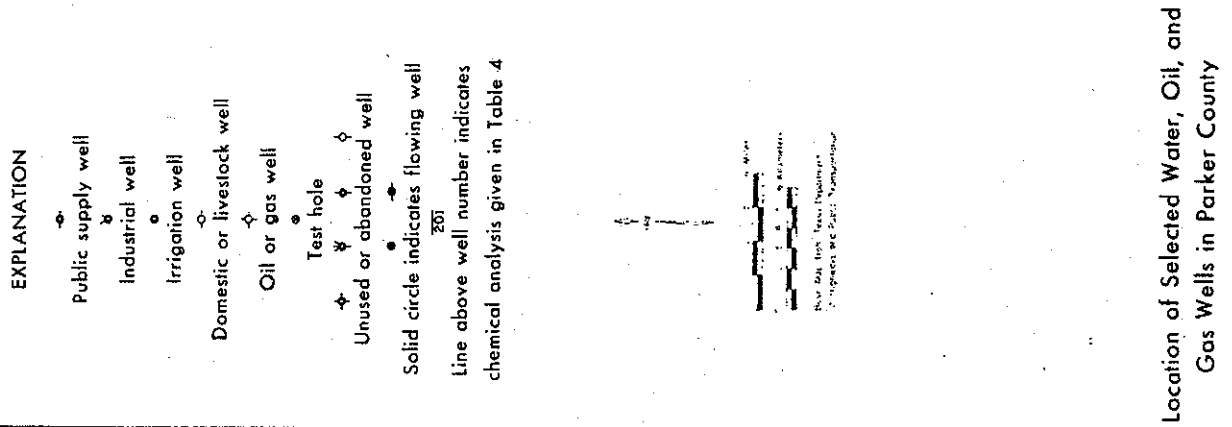
PROBABLE MINERAL COMPOSITION

.5 %	3.2 MG/L	CALCIUM BICARBONATE
84.8 %	496.3 MG/L	SODIUM BICARBONATE
.3 %	1.8 MG/L	MAGNESIUM BICARBONATE
6.1 %	39.5 MG/L	SODIUM CHLORIDE
.1 %	1 MG/L	SODIUM SULFATE
-8.48 %	ION CHARGE IMBALANCE	

000289

Pl. Appx. 000044





000291

PARKER COUNTY
Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well or sampled interval (ft)	Date of collection	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	HI-trace (NO ₃)	Boron (B)	Dissolved solids	Total hardness as CaCO ₃	Specific conductance (microhm/cm at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
UP-32-20-407	Kcpa	240	Nov. 30, 1976	--	--	113	4	9	--	301	40	16	0.3	7.0	--	337	297	633	7.6	6	0.2	0.0
408	Kcpa	158	Mar. 7, 1950	10	10.0	101	7	9	--	333	14	10	--	--	--	324	282	565	7.1	6	1.2	0.0
801	Kcpa	168	Mar. 6, 1950	16	--	56	21	41	--	297	46	14	--	5.8	--	345	226	596	7.3	28	1.1	0.3
801	Kcpa	168	Mar. 22, 1978	16	--	53	20	41	--	297	45	12	--	5.3	--	338	216	564	7.7	29	1.2	0.5
25-101	Kctm	90	Feb. 12, 1975	24	1	96	14	34	2.0	210	74	75	0.3	34.0	0.3	456	299	700	7.2	20	0.8	0.0
201	Kctm	100	Feb. 23, 1950	28	8	47	11	61	--	279	29	18	--	13.0	--	344	162	531	8.2	45	2.0	1.3
301	Qui	70	do	19	--	51	36	29	--	352	28	12	--	3.8	--	351	275	606	7.7	19	0.7	0.2
602	Qui	52	Feb. 4, 1975	17	--	176	45	112	3.0	437	212	205	0.8	0.4	0.4	986	630	1,510	7.8	28	1.9	0.0
26-101	Kctm	200	do	16	0	101	13	13	--	356	27	10	0.5	0.4	--	355	309	580	7.8	8	0.3	0.0
201	Kcpa	123	Feb. 28, 1950	14	0.4	21	10	120	--	375	30	8	3.2	0	--	334	92	650	8.3	74	5.3	0.2
503	Kctm	200	Mar. 31, 1975	--	--	39	30	58	--	366	4	28	0.3	0.4	--	340	202	600	7.2	36	1.6	1.5
504	Kctm	132	do	--	--	42	18	66	--	360	22	8	0.1	0.4	--	333	178	510	7.2	44	2.1	1.3
601	Kctm	310	June 30, 1971	20	--	67	71	70	--	590	86	28	0.4	0.4	--	632	459	980	7.8	25	1.4	0.0
27-601	Kcpa	50	Aug. 3, 1976	17	--	96	5	22	--	282	16	40	0.2	4.7	--	339	282	577	8.0	16	0.5	0.0
28-206	Kcpa	200	Mar. 6, 1950	19	2.0	58	20	41	--	300	46	15	--	1.2	--	349	226	580	8.3	28	1.1	0.3
401	Kcpa	200	Mar. 22, 1978	18	--	60	15	32	--	295	27	8	0.3	0.4	--	305	212	510	7.8	25	0.9	0.0

VICTOR G. CARRILLO, CHAIRMAN
ELIZABETH A. JONES, COMMISSIONER
MICHAEL L. WILLIAMS, COMMISSIONER



RAMON FERNANDEZ JR., P.E.
DEPUTY DIRECTOR, OIL AND GAS DIVISION
D. W. -JOE- CRESS
DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

November 5, 2010

Unidentified

STATUS REPORT

Lipsky, Steve Complaint No. 7B-9601
Lipsky Property
Domestic Water Well
Parker County, Texas
Job No. 10-8443

Steve Lipsky's concern was natural gas in a water well. On October 14, 2010, a joint inspection of the Range Production Company, Butler Unit, Well No. 1H was conducted by Bubba Jonas, Richard Cortinas and Bobby Foust. On October 26, 2010, a joint inspection of the Lipsky water well and the neighboring Haley property water well was conducted by Bubba Jonas, Olin Macnamara, Steve Lipsky, Shyla Lipsky, Carl Willis, Chris Lister, Rick Haley and Sean Baker. On October 26, 2010, a joint inspection of the Range Production Company, Butler Unit, Well No. 1H and Teal Unit, Well No. 1H was conducted by Bubba Jonas, Olin Macnamara, Les Sahr, Sean Baker, Carl Willis and Chris Lister. During the inspections, the following were observed:

Oct. 14, 2010 Range Production Company conducted a production casing integrity test on the Butler Unit Lease (253732) Well No. 1H. The top of cement on the production casing is at 4,600 feet. A packer was set at 4,837 feet. The production casing held 845 psig for 30 minutes with 540 psig on the tubing. The bradenhead had 28 psig that remained consistent for the duration of the test. The Butler Unit, Well No. 1 was returned to production following the casing integrity test.

Oct. 26, 2010 Water and gas samples from the Lipsky property water well were collected by Carl Willis and Chris Lister from the Environmental Protection Agency for analysis. Sean Baker with Texas Fabco sampled gas from the Lipsky water well for analysis.

The Rick Haley property water well, adjoining the Lipsky property to the north, was inspected. The Haley water well is located at 175 Old Ranch Court (GPS coordinates N32.56505 W97.79401). The Haley water well was drilled in 2002, by Peck's Water Well Service. The well has a cement enclosure and lid. The water well is equipped with a down hole pump that supplies water to a treatment system inside a building behind the residence. The water treatment system consists of an ozonator, pressure and storage tanks, and a transfer pump that supplies water to the residence. Carl Willis and Chris Lister from the Environmental Protection Agency collected water samples for analysis from the water storage tank. A slight sulphur odor was noted in the water. Personnel monitors worn at the time of sampling did not register the presence of hydrogen sulfide gas.

Carl Willis and Chris Lister from the Environmental Protection Agency collected water and gas samples for analysis from the tubing string of the Range Production Company, Butler Unit, Well No. 1H. Sean Baker, Texas Fabco, collected gas samples from the tubing and bradenhead on the Butler Unit Well No. 1H.

Sean Baker collected gas samples from the production tubing of the Teal Unit, Well No. 1H and from the common injection flow line supplying gas to the lift system for both the Teal Unit and Butler Unit wells.

At the time of inspection, the Butler Unit, Well No. 1H was producing with 140 psig on the tubing, 680 psig on the casing and 32 psig on the bradenhead. The bradenhead valve was opened and the pressure was 0 psig within 10 seconds.

3444 NORTH 1ST ★ SUITE 600 ★ ABILENE, TEXAS 79603 ★ PHONE: 325/677-3545 ★
TDD 800/735-2989 OR TDY 512/463-7284 AN EQUAL OPPORTUNITY EMPLOYER

Range Resources Corp.
Docket: SDWA-06-2011-1208

000293

Administrative Record #20 PL Appx. 000048

Page 2

Lipsky, Steve Complaint 7B-9601

Unidentified


Lipsky Property

Parker County, Texas

November 5, 2010

File review is scheduled for the week of December 6, 2010. Monthly inspections are scheduled to monitor the status of the Lipsky water well. Upon receipt and review of the analytical results further Commission action may be taken. Please direct any questions with regard to this complaint to Doug Allmand at (325) 677-3545.

Sincerely,


Doug Allmand
Engineering Specialist

DA/mm

- ☒ Assistant District Director
☐ District Director

cc: Field Operations, RRC, Austin

Steve Lipsky
127 River Oak Court
Weatherford, TX 76087

Sid Slocum, Water Section Manager
Texas Commission on Environmental Quality
2309 Gravel Drive
Fort Worth, TX 76118

Ron VanWyk, Water Enforcement Branch
Environmental Protection Agency
1445 Ross Avenue
Dallas, TX 75202

Range Production Company (691703)
100 Throckmorton St Ste 1200
Fort Worth, TX 76102

Rick Haley
175 Old Ranch Court
Weatherford, TX 76087

STATE OF TEXAS WELL REPORT for Tracking #108518

Owner:	Steve Lipiske	Owner Well #:	No Data
Address:	Silverado Addition Weatherford, TX 76086	Grid #:	32-26-6
Well Location:	Silverado Addition Weatherford, TX 76086	Latitude:	32° 33' 43" N
Well County:	Parker	Longitude:	097° 46' 48" W
Elevation:	No Data	GPS Brand Used:	map

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Date: Started: 4/11/2005
Completed: 4/11/2005

Diameter of Hole: Diameter: 7 in From Surface To 200 ft

Drilling Method: Air Rotary

Borehole Completion: Gravel Packed From: 60 ft to 200 ft
Gravel Pack Size:

Annular Seal Data: 1st Interval: From 0 ft to 60 ft with 3 (#sacks and material)
2nd Interval: No Data
3rd Interval: No Data
Method Used: Grout
Cemented By: Larry Peck
Distance to Septic Field or other Concentrated Contamination: 150 ft
Distance to Property Line: No Data
Method of Verification: Tape
Approved by Variance: No Data

Surface Completion: Alternative Procedure Used

Water Level: Static level: 65 ft. below land surface on 4/11/2005
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Submersible
Depth to pump bowl: 180 ft

Well Tests: Bailer
Yield: 18 GPM with 90 ft drawdown after 3 hours

Water Quality: Type of Water: Good
Depth of Strata: No Data
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

000437

Company Information: **Peck's Water Well Service, Inc.**
2650 White Settlement Road
Weatherford, TX 76087

Driller License Number: **1598**

Licensed Well Driller Signature: **Larry Peck**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **\$dfs**
Surface Completion: Steel Sleeve
This well is located near the Parker/Hood County Line.

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #108518) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
 0-3 Top Soil
 3-18 Clay Gravel Sand Layers
 18-35 Yellow Clay Sand
 35-60 Green Shale with Rock
 60-90 Shale with Sand
 90-140 Green Shale Gravel Sand Layers
 140-145 Red Bed
 145-190 Green Shale with Sand Layers
 190-200 Red Bed

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
4	New	Plastic	0 180
4	New	Plastic, Slotted	180 200 .020

000438

Rick Hayley

32.56505 -97.79041

ATTENTION OWNER: Confidentiality
Privilege Notice on Reverse SideSTATE OF TEXAS
WATER WELL REPORT

OWNER: GODFREY, RODNEY ADDRESS: 175 OLD RANCH CT. CITY: WEATHERFORD STATE: TX ZIP: -

ADDRESS OF WELL:
County: PARKER GRID # 32-26-6
Street or RFD: SAME
City, State, Zip code: SAME TX3) TYPE OF WORK: NEW WELL 4) PROPOSED USE: DOMESTIC
If Public Supply well, were plans submitted to the TNRCC?6) WELL LOG: 09254 DIAMETER OF HOLE 7) DRILLING METHOD: 8) BOREHOLE COMPLETION:
DATE DRILLING: DIAMETER FROM TO AIR ROTARY GRAVEL PACKED
STARTED: 08/04/02 7 0 220 IF GRAVEL... FROM 100 FT. TO 220 FT.
COMPLETED: 08/04/02 FROM FT. TO FT.CASING, BLANK PIPE, AND WELL SCREEN DATA:
DIA NEW/USED DESCRIPTION FROM TO GAGE CASING SCREEN
4 N PLASTIC 0 200
4 N PLASTIC, SLOTTED 200 220 .020

GEOLOGICAL DESCRIPTION:

FROM	TO	DESCRIPTION
0	16	TOP SOIL AND ROCK
16	35	GRAY SHALE AND ROCK
35	85	YELLOW CLAY ROCK
85	125	YELLOW GRAY SHALE ROCK
125	160	SHALE COAL SAND LAYERS
160	195	GREEN SHALE GRAVEL SAND LAYERS
195	200	RED BED
200	210	GREEN SHALE AND SAND LAYERS
210	220	RED BED

9) CEMENTING DATA:
Cemented from No. of Sacks Used
0 FT. TO 100 FT. 3
FT. TO FT.Method used: GROUT
Cemented by: LARRY PECK
Distance to septic field lines: ft.
Method of verification of above distance:10) SURFACE COMPLETION:
APP. ALTER. PROC. Steel Sleeve11) WATER LEVEL:
STATIC LEVEL : 115 FT. DATE: 08/04/02
ARTESIAN FLOW: GPM. DATE:

12) PACKERS: TYPE DEPTH

13) TYPE PUMP:
SUMMERSIBLE
DEPTH TO PUMP: 20014) WELL TEST:
BAILER
YIELD: 12 GPM WITH 60 FT DRAWDOWN AFTER 3 HRS15) WATER QUALITY:
TYPE OF WATER: GOOD DEPTH OF STRATA: NO CHEMICAL ANALYSIS MADE
NO STRATA OF UNDESIRABLE WATER PENETRATEDCOMPANY NAME: PECK'S WELL SERVICE INC. WATER WELL DRILLER'S LICENSE NO.: 1598WPL
ADDRESS: 2650 WHITE SETTLEMENT RD. CITY: WEATHERFORD STATE: TX ZIP CODE: 76087FOR TWC USE ONLY
WELL NO. _____
LOCATED ON MAP _____

I HEREBY CERTIFY THAT THIS WELL WAS DRILLED BY ME (OR UNDER MY SUPERVISION) AND THAT EACH AND ALL OF THE STATEMENTS HEREIN ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I UNDERSTAND THAT FAILURE TO COMPLETE ITEMS 1 THRU 15 WILL RESULT IN THE LOG(S) BEING RETURNED FOR COMPLETION AND RESUBMITTAL.

(signed) Larry Peck
(LICENSED WATER WELL DRILLER)(signed) _____
(REGISTERED DRILLER TRAINEE)

RECEIVED	
TOLR MAIL ROOM	
SEP 13 2002	
RECEIPT #	AMOUNT

000439

STATE OF TEXAS WELL REPORT for Tracking #226387

Owner:	Steve Hurst	Owner Well #:	Well Log 09541
Address:	Cactus Rio Weatherford , TX 76086	Grid #:	32-26-5
Well Location:	Cactus Rio Weatherford , TX 76086	Latitude:	32° 33' 49" N
Well County:	Parker	Longitude:	097° 47' 38" W
Elevation:	No Data	GPS Brand Used:	Map - address
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Date: Started: 10/15/2005
Completed: 10/15/2005

Diameter of Hole: Diameter: 7 in From Surface To 180 ft

Drilling Method: Air Rotary

Borehole Completion: Gravel Packed From: 50 ft to 180 ft
Gravel Pack Size:

Annular Seal Data: 1st Interval: From 0 ft to 50 ft with 3 (#sacks and material)
2nd Interval: No Data
3rd Interval: No Data
Method Used: Grout
Cemented By: Larry Peck
Distance to Septic Field or other Concentrated Contamination: No Data
Distance to Property Line: No Data
Method of Verification: no septic when drilled
Approved by Variance: No Data

Surface Completion: Alternative Procedure Used

Water Level: Static level: 75 ft. below land surface on 10/15/2005
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Submersible
Depth to pump bowl: 160 ft

Well Tests: Bailer
Yield: 10 GPM with 60 ft drawdown after 2 hours

Water Quality: Type of Water: Good
Depth of Strata: No Data
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

000443

Company Information: **Peck's Well Service Inc.**
2650 White Settlement Rd.
Weatherford, TX 76087

Driller License Number: **1598**

Licensed Well Driller Signature: **Larry A. Peck**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **Surface Completion: Steel Sleeve**
Well has natural gas coming into well
at intermitting times.
\$mew

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #226387) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 - 20 Red Yellow Clay
20 - 25 Green Clay Sand Layers
25 - 55 Green Clay Rock
55 - 70 Green Shale with Sand Layers
70 - 140 Red Bed
140 - 145 Green Shale Gravel Sand Layers
145 - 160 Green Shale with Sandstone
160 - 180 Red Bed Yellow Clay

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
4	New	Plastic	0 - 160
4	New	Plastic, Slotted	160 - 180 .020

000444

STATE OF TEXAS WELL REPORT for Tracking #226388

Owner:	Steve Hurst	Owner Well #:	Well Log 09542
Address:	Cactus Rio Ct. Weatherford, TX 76086	Grid #:	32-26-5
Well Location:	Cactus Rio Ct. Weatherford, TX 76086	Latitude:	32° 33' 50" N
Well County:	Parker	Longitude:	097° 47' 41" W
Elevation:	No Data	GPS Brand Used:	Map - address

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Date: Started: 10/17/2005
Completed: 10/17/2005

Diameter of Hole: Diameter: 7 in From Surface To 120 ft

Drilling Method: Air Rotary

Borehole Gravel Packed From: 40 ft to 120 ft
Completion: Gravel Pack Size:

Annular Seal Data: 1st Interval: From 0 ft to 40 ft with 3 (#sacks and material)
2nd Interval: No Data
3rd Interval: No Data
Method Used: Grout
Cemented By: Larry Peck
Distance to Septic Field or other Concentrated Contamination: 100 ft
Distance to Property Line: No Data
Method of Verification: Taped
Approved by Variance: No Data

Surface Completion: Alternative Procedure Used

Water Level: Static level: 50 ft. below land surface on 10/17/2005
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Submersible
Depth to pump bowl: 100 ft

Well Tests: Bailer
Yield: 10 GPM with 60 ft drawdown after 2 hours

Water Quality: Type of Water: Good
Depth of Strata: No Data
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

000445

Company Information: **Peck's Well Service Inc.**
2650 White Settlement Rd.
Weatherford , TX 76087

Driller License Number: **1598**

Licensed Well Driller Signature: **Larry A. Peck**

Registered Driller Apprentice Signature: **No Data**

Apprentice Registration Number: **No Data**

Comments: **Surface Completion: Steel Sleeve**
\$mew

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking number (Tracking #226388) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description
0 - 20 Yellow Green Clay
20 - 30 Red Sand Clay
30 - 50 Green Shale and Rock
50 - 65 Green Shale with Sand Layers
65 - 66 Red Bed
66 - 80 Green Shale and Sand
80 - 110 Green and Gravel
110 - 120 Red Bed

Dia. New/Used Type Setting From/To
4 New Plastic 0 - 100
4 New Plastic, Slotted 100 - 120 .020

000446

STATE OF TEXAS WELL REPORT for Tracking #167075

Owner: STEVE HURST	Owner Well #: No Data
Address: 2411 CACTUS RIO LN. WEATHERFORD, TX 76087	Grid #: 32-26-5
Well Location: No Data	Latitude: 32° 33' 44" N
Well County: Parker	Longitude: 097° 47' 45" W
Elevation: No Data	GPS Brand Used: GARMIN

Type of Work: New Well	Proposed Use: Domestic
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Drilling Date: Started: **1/22/2009**
Completed: **1/22/2009**

Diameter of Hole: Diameter: **7-7/8 in From Surface To 120 ft**

Drilling Method: **Air Rotary**

Borehole Completion: Gravel Packed From: **45 ft to 120 ft**
Gravel Pack Size:

Annular Seal Data: 1st Interval: **From 0 ft to 45 ft with 15 (#sacks and material)**
2nd Interval: **No Data**
3rd Interval: **No Data**
Method Used: **CONVENTIONAL**
Cemented By: **No Data**
Distance to Septic Field or other Concentrated Contamination: **No Data**
Distance to Property Line: **67 ft**
Method of Verification: **MEASURED**
Approved by Variance: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: Static level: **45 ft. below land surface on 1/22/2009**
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **Submersible**
Depth to pump bowl: **60 ft**

Well Tests: **Estimated**
Yield: **20 GPM with 5 ft drawdown after .25 hour**

Water Quality: Type of Water: **No Data**
Depth of Strata: **No Data**
Chemical Analysis Made: **No Data**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company **BENNETT WATER WELL DRILLING, INC.**

000447

Information: 7300 W. HWY 377
 TOLAR, TX 76476

Driller License Number: 4805

Licensed Well Driller Signature: JEFF BENNETT

Registered Driller Apprentice Signature: No Data

Apprentice Registration Number: No Data

Comments: No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #167075) on your written request.

Texas Department of Licensing & Regulation
 P.O. Box 12157
 Austin, TX 78711
 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
 0 - 45 CLAY
 45 - 110 SAND
 110 - 120 CLAY RED

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
4	NEW	PLASTIC	0 - 80
4	NEW	SCREEN	80 - 120 .020

000448

Inventory No.: <u>OS</u>
Scan Code: <u>36</u>

	<input checked="" type="checkbox"/> PHONE CALL <input type="checkbox"/> DISCUSSION <input type="checkbox"/> FIELD TRIP <input type="checkbox"/> CONFERENCE	
	<input type="checkbox"/> OTHER	
(Record of Item checked above)		
TO: Doug Almond (325-677-3545)	FROM: Ron Van Wyk	DATE: 8/17/10
		TIME: 2:15pm
Subject: Lipsky complaint		

Summary: Mr. Almond had been investigating Mr. Lipsky's complaint of gas in his water well. He was in the process of sending samples to the lab for analyses for anions/cations, BTEX, TPH. He had taken an earlier sample, but the temperature was out of range so the sample could not be analyzed. He had found that the nearest gas well is about a half mile away. However, it terminates near the Lipsky property. The Lipsky water well was drilled in 2005 by Peck Well Service. It is about 200 feet deep and constructed with PVC pipe. Water pumps from the well to an open storage tank in the garage and is treated due to high sulfur content. Gas was discovered in the Lipsky well when the well pump was pulled for repairs. The gas well was drilled about a year ago. Mr. Almond saw no problem with the gas well, other than some pressure build-up. Gas production is about 7000 feet deep. There is a possibility of shallow natural gas in the area. Mr. Almond plans to sample both the Lipsky well and the gas production well to do fingerprint analyses for comparison.

Mr. Lipsky has hired an environmental consultant, Wolf Eagle, who is sampling the well.

I gave Mr. Almond my phone number and address and asked him to call when he had more information.

Conclusions/Actions Taken or Required:

Several wells in area. No neighbors have complained.

000710

Range Resources Corp.
Docket: SDWA-06-2011-1208

Administrative Record #38
Pl. Appx. 000059

RECORD OF COMMUNICATION	<input checked="" type="checkbox"/> PHONE CALL <input type="checkbox"/> DISCUSSION <input type="checkbox"/> FIELD TRIP <input type="checkbox"/> CONFERENCE <input type="checkbox"/> OTHER	
	(Record of Item checked above)	
TO: Ron Van Wyk	FROM: Steve Lipsky	DATE: 8/19/10
		TIME: 10:30 am
Subject: Gas in Water Well		

Summary:

He said that he had gas in his water well. Well is about 6 years old and first noticed problem a couple months ago. Two or three weeks ago he got the water well driller out who opened the well and found gas pressure. He says that the water now is cloudy (looks like alka seltzer) when it first flows from faucet. He said that a water hose connected to the well vent would shoot flames 6 feet. He knows of no neighbors with similar problems. He has a portable gas tester from the propane company and has some gas at his former residence a couple hundred yards away. He water use is mainly for his house hold (5 members). Lawn watering is from the river on his property. His lot is 14 acres. The average lot size is about 5 acres. He has a propane tank for cooking. The tank is maintaining pressure. He sent a sample to a lab and they said the gas was "off the charts". I asked him to send analytical results to both the Commission and EPA when he get them (7-10 days).

I told him that we would be monitoring the Railroad Commission investigation, but that the EPA would not get involved unless we had some reason to believe the Railroad Commission needed assistance. He was skeptical of the Railroad Commission's neutrality.

Conclusions/Actions Taken or Required:

Range Resources Corp.
Docket: SDWA-06-2011-1208

000716

Administrative Record #39
Pl. Appx. 000060



Complaint Call from Alisa Rich concerning gas in water well in Parker County

Willie Lane to: Stephen Gilrein, Jerry Saunders, David Garcia

08/20/2010 03:37 PM

Cc: Debra Griffin, Diane Taheri, Carol Peters

Bcc: Esteban Herrera

On Friday, August 20, 2010, I received a call from Alisa Rich with Wolf-Eagle Environmental Services. Mr Steven Lipsky had obtained her company to collect water and air samples from his well. Ms. Rich was very concerned when she talked to me about the ongoing risk to Mr. Lipsky and his family. She relayed to me that one of her sampling techs had suffered respiratory distress after breathing what she believes may have been H2S fumes while sampling his well. Mr. Lipsky supposedly demonstrated in her presence that he could light his water hose which was attached to his well vent and that a "10-foot flare" was the result. She stated that she had a video of this and that she had sent it to the RA and that she would send me a copy. She told me that they had detected methane, ethane, propane and butane gases. She is to send me the data that she has collected from their preliminary assessment. I have not yet received this information or the video. She also said that the local Fire Marshall has been out to visit the location and that he was concerned, but I have no information concerning his assessment.

Mr. Lipsky's home is located in the Silverado on the Brazos development which is located near Weatherford, TX in Parker County. He moved there and his well was completed to 200 feet in 2005. We originally became aware of Mr. Lipsky's issues on August 10, 2010, when his initial complaint came in through Rob Lawrence. I called Mr. Lipsky personally and discussed his situation. He told me the RRC had been to his home and had collected a sample (we confirmed with the RRC that this was for analysis of anions/cations, BTEX and TPH). Ron Van Wyk of my staff subsequently contacted the RRC on August 17, 2010, to assess the RRC completed and proposed plans with respect to this complaint. The RRC representative told him that they had looked into the nearby well and had not noted any obvious concerns. The RRC also said that they would be collecting gas samples from the well production and Mr. Lipsky's well to do comparative fingerprint analyses.

There are several other water wells in the area, but to our knowledge no other neighbors have complained of well issues. Preliminary investigation by my staff has provided support to Mr. Lipsky's claim that Range Energy had completed a well approximately a half mile from his site. Records show that a horizontal frac line was drilled at approximately 5500 feet which underlies part of his property. I will have a team conduct a preliminary site investigation at Mr. Lipsky's property early next week. I have requested that a representative of the air inspections group also accompany my staff because of the air concerns.

Willie Lane
Chief, Water Resources Section (6EN-WR)
Water Enforcement Branch
EPA Region 6
Phone: 214.665.8460
Fax: 214.665.2168

Range Resources Corp.
Docket: SDWA-06-2011-1208

Administrative Record #40
PP Appx. 000061

000722

**APPENDIX IN SUPPORT OF UNITED STATES' MEMORANDUM IN OPPOSITION
TO DEFENDANTS' MOTION TO DISMISS**

POST ADMINISTRATIVE RECORD DOCUMENTS

**RAILROAD COMMISSION OF TEXAS
OFFICE OF GENERAL COUNSEL**

OIL AND GAS DOCKET
NO. 7B-0268629

IN RE: CONSERVATION AND PREVENTION
OF WASTE OF CRUDE PETROLEUM
AND NATURAL GAS IN THE STATE
OF TEXAS

Austin, Texas
December 8, 2010

**COMMISSION CALLED HEARING
TO CONSIDER WHETHER OPERATION OF THE
RANGE PRODUCTION COMPANY
BUTLER UNIT, WELL NO. 1H (RRC NO. 253732)
AND THE TEAL UNIT, WELL NO. 1H (RRC NO. 253779),
NEWARK, EAST (BARNETT SHALE) FIELD, HOOD COUNTY, TEXAS,
ARE CAUSING OR CONTRIBUTING TO CONTAMINATION
OF CERTAIN DOMESTIC WATER WELLS IN PARKER COUNTY, TEXAS**

NOTICE IS HEREBY GIVEN to the public and to all interested persons that under the legal authority and jurisdiction of Title 3, Oil and Gas, Subtitles A, B, and C of the Texas Natural Resources Code, Chapters 26, 27 and 29 of the Texas Water Code, and TEX. GOV'T CODE ANN. art. §§ 2001 *et seq.* (2010), the RAILROAD COMMISSION OF TEXAS will hold a hearing on **JANUARY 10, 2011, at 9:00 a.m.** at the William B. Travis State Office Building, 1701 N. Congress Avenue, Austin, Texas. This hearing will be conducted in conformity with the TEX. GOV'T CODE ANN. §§ 2001 *et seq.* (2010). For room assignment, on the date of the hearing please check the bulletin board in the 1st Floor lobby. Persons planning to attend this hearing are urged to contact Docket Services Section (512) 463-6848 immediately prior to the hearing date to be sure that the hearing will proceed on the scheduled date.

This hearing is called at the request of the Field Operations Section of the Oil & Gas Division of the Railroad Commission of Texas to consider whether the operation of the Range Production Company Butler Unit, Well No. 1H (RRC No. 253732) and Teal Unit, Well No. 1H

OIL AND GAS DOCKET NO. 7B-0268629

PAGE 2

(RRC No. 253779), Newark, East (Barnett Shale) Field, Hood County, Texas, is causing or contributing to contamination of certain domestic water wells in Parker County, Texas, and/or whether there is an alternative cause or contributor to any such contamination.

Informal complaints filed with the Commission and Commission staff investigation have disclosed that contamination may have occurred in certain domestic water wells located in the area of the Range Production Company, Butler Unit, Well No. 1H (RRC No. 253732) and the Teal Unit, Well No. 1H (RRC No. 253779), more particularly the Lipsky Property Domestic Water Well in Parker County, and the Hailey Property Domestic Water Well in Parker County. No staff determination has yet been made as to the source of any such contamination.

At the hearing, the Commission will consider the extent and causation of, and responsibility for, any contamination that may have occurred, or which is likely to occur, in domestic water wells in the area of the Range Production Company Butler Unit, Well No. 1H (RRC No. 253732) and the Teal Unit, Well No. 1H (RRC No. 253779), and, more particularly, whether the operation of these wells has caused or contributed, or may cause or contribute, to any such contamination. The Commission may also consider whether there is any alternative cause or contributor to any contamination that may have occurred. The Commission will also consider what action should be taken by the Commission to ensure that any contamination that may have occurred in domestic water wells in the area of the referenced wells is properly remediated and to ensure that any future contamination is prevented.

OIL AND GAS DOCKET NO. 7B-0268629

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Range Production Company is directed to appear at the hearing and to present evidence on the issue of whether the Butler Unit, Well No. 1H (RRC No. 253732) and the Teal Unit, Well No. 1H (RRC No. 253779) are causing or contributing, and/or will cause or contribute, to contamination of domestic water wells in the area of these wells.

On December 7, 2010, the United States Environmental Protection Agency, Region VI issued an Emergency Administrative Order relating to the subject matter of this hearing. The Commission encourages the participation of EPA in this hearing and presentation by EPA of evidence in its possession supporting findings of fact and conclusions of law in the Emergency Administrative Order.

If you have questions regarding this proceeding, please contact Ramon Fernandez, at (512) 463-6827. If you have any questions regarding the hearing procedure, please contact the Railroad Commission, Office of General Counsel, at (512) 463-6848.

IF A CONTINUATION IS NECESSARY, this hearing will proceed at the William B. Travis State Office Building, Austin, Texas, and, to the extent possible, on subsequent working days. The room number and exact time of the continuation will be announced on the record in this proceeding and recorded with Docket Services, Office of General Counsel, Railroad Commission of Texas.

PURSUANT TO SAID HEARING, the Commission will enter such rules, regulations, and orders as in its judgment the evidence presented may justify.

ANY REQUEST FOR POSTPONEMENT of this hearing must be received no later than five (5) working days prior to the scheduled date shown above. Copies of such request must be forwarded to all parties shown on the service list.

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TO APPEAR IN SUPPORT OF OR IN OPPOSITION TO THIS PROCEEDING, a party other than the applicant must file a notice of intent to appear with Docket Services, Office of General Counsel, at least five (5) working days in advance of the hearing date. A copy of the notice of intent to appear should be served on parties of record.

IF ANY PARTY DESIRES A WRITTEN TRANSCRIPT of the hearing by a Court Reporter, that party should notify Docket Services at (512) 463-6848, at least five (5) working days in advance of the hearing date. **If a written transcript is requested, the Commission may assess the cost of the transcript to one or more parties.** Unless any party requests a written transcript, the record will be made by audio recording.

ANY INDIVIDUAL WITH A DISABILITY who needs auxiliary aids and services in order to have an equal opportunity to effectively communicate and participate in this hearing must request such aids or services at least two weeks prior to the scheduled hearing by notifying the Personnel office of the Railroad Commission of Texas by mail at P.O. Box 12967, Austin, Texas 78711-2967, or by telephone at (512) 463-7327 or TDD No. (512) 463-7284.

ALL EXHIBITS FILED AS A PART OF THE RECORD in this cause must be submitted in duplicate. Data in Commission records may be incorporated by reference, but the reference must be specific, and if it includes exhibits filed in prior proceedings before the Commission, a copy of such exhibit properly identified shall be submitted for this record.

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing Notice of Hearing in Oil & Gas Docket No. **7B-0268629** was served on each of the persons named below by depositing same in the United States Mail (or by Inter-Agency Mail), postage thereon fully prepaid, properly addressed, as follows:

RANGE PRODUCTION COMPANY
100 THROCKMORTON STREET SUITE 1200
FORT WORTH TX 76102

JOHN TINTERA
EXECUTIVE DIRECTOR
RRC-AUSTIN

RANGE PRODUCTION COMPANY
ATTN: MIKE MIDDLEBROOK
VICE PRESIDENT OF OPERATIONS
100 THROCKMORTON STREET SUITE 1200
FORT WORTH TX 76102

RAMON FERNANDEZ JR.
ACTING DEPUTY DIRECTOR
OIL AND GAS DIVISION
RRC - AUSTIN

U S EPA REGION VI
OFFICE OF REGIONAL COUNSEL (6RC-EW)
ATTN: TUCKER HENSON
1445 ROSS AVENUE SUITE 1200
DALLAS TX 75202

STAFF ATTORNEY
DAVID COONEY
RRC - AUSTIN

U S EPA REGION VI
OFFICE OF COMPLIANCE ASSURANCE
AND ENFORCEMENT (6EN)
ATTN: JOHN BLEVINS
1445 ROSS AVENUE SUITE 1200
DALLAS TX 75202

JOE CRESS
DISTRICT OFFICE 7B
ABILENE -RRC

U S EPA REGION VI
DR ALFREDO ALMENDARIZ
REGIONAL ADMINISTRATOR
1445 ROSS AVENUE SUITE 1200
DALLAS TX 75202

BILL MIERTSCHIN
OIL AND GAS DIVISION
RRC-AUSTIN

STEVE LIPSKY
127 RIVER OAK COURT
WEATHERFORD TX 76084

KEITH BARTON
FIELD OPERATIONS
RRC-AUSTIN

RICK HAILEY
175 OLD RANCH COURT
WEATHERFORD TX 76084

On this the **9th** day of **December**, 2010.

DOLORES HOWARD

Office of General Counsel, RAILROAD
COMMISSION OF TEXAS

From: "Riley, John" [jriley@velaw.com]
Sent: 12/09/2010 05:45 PM CST
To: Suzanne Murray
Cc: Scott McDonald
Subject: Range Resources

Suzanne:

Range's foremost concern is the safety and welfare of those around its operations and it is Range's highest priority to make sure that we address safety and welfare concerns first, before and above all other issues. Whether Range proves to be the cause of the concern is a question that can and will be answered later but, for now, let us unambiguously state that we will install gas monitors in the residences of concern. Indeed, this afternoon, Range installed a gas monitor in one residence and, at the other property owners' request, will install a gas monitor in their residence on Saturday. Further, one domestic well has not been used as a source of water since the September timeframe and, it is my understanding, that the other resident's own testing performed of his well performed in August did not indicate that it was affected. Regardless and to the point, Range has offered to provide potable water to these two families.

Range could not agree with EPA more that time is critical in these circumstances and, indeed, that is why Range has been actively engaged in investigating and addressing the issue for months. As expressed previously, we are more than willing to continue a transparent effort to address this situation as we have with the RRC and, to that end, we will continue to voluntarily cooperate with EPA. We will share information and offer subject matter experts as we go forward and address all concerns.

While we dispute EPA's factual or legal basis for the order, we have effectively complied with the provisions in EPA's order directed to ensure the immediate safety and welfare of the individuals affected. To the extent that you have called for another clear response as to whether we will adhere exactly to the remaining requirements of the order, we must respectfully state that we dispute the validity of the order and cannot agree to follow the precise ordering provisions found in Paragraph 50 A) – F).

I hope that this message removes any remaining uncertainty regarding Range's position at this point. We continue to look forward to the receipt of EPA's technical back-up for its order and our meeting next week. We also look forward to EPA's participation in the Texas Railroad Commission hearing in this matter, now scheduled for January 10, 2011.

Regards,

John A. Riley

Partner

Vinson & Elkins LLP

2801 Via Fortuna, Suite 100

Austin, TX 78746-7568

Tel 512.542.8520

Fax 512.236.3329

Treasury Circular 230 Disclosure: To the extent this communication contains any statement regarding federal taxes, that statement was not written or intended to be used, and it cannot be used, by any person (i) as a basis for avoiding federal tax penalties that may be imposed on that person, or (ii) to promote, market or recommend to another party any transaction or matter addressed herein.

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Solicitors and Registered Foreign Lawyers. A list of partner names is available for inspection at CityPoint, One Ropemaker Street, London EC2Y 9UE. Vinson & Elkins RLLP is a limited liability partnership formed under the laws of New York and regulated by the Solicitors Regulation Authority (No. 00079019).

Thank You.
